

## **A. LABELLING**

**PARTICULARS TO APPEAR ON THE OUTER PACKAGE**

**Cardboard box containing 1, 3, 6, 12, 24, 60 or 120 pipettes**

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

Duoflect spot-on solution for dogs 10-20 kg  
Duoflect spot-on solution for dogs 20-40 kg  
Duoflect spot-on solution for dogs 40-60 kg

Fipronil / (S)-methoprene

**2. STATEMENT OF ACTIVE SUBSTANCES**

Each pipette delivers 240 mg of fipronil and 120 mg of (S)-methoprene  
Each pipette delivers 479 mg of fipronil and 240 mg of (S)-methoprene  
Each pipette delivers 721 mg of fipronil and 360 mg of (S)-methoprene

**3. PHARMACEUTICAL FORM**

Spot-on solution.

**4. PACKAGE SIZE**

1 pipette  
3 pipettes  
6 pipettes  
12 pipettes  
24 pipettes  
60 pipettes  
120 pipettes

**5. TARGET SPECIES**

Dogs 10-20 kg  
Dogs 20-40 kg  
Dogs 40-60 kg

**6. INDICATION(S)**



Flea

9 weeks



Flea infestation

8 weeks



Tick

6 weeks

Treats and prevents tick and flea infestations.  
Prevents flea multiplication (acts against adults, eggs, larvae and pupae).  
Read the package leaflet before use.

**7. METHOD AND ROUTE(S) OF ADMINISTRATION**

Read the package leaflet before use.  
For external use only.  
One pipette per animal.

**8. WITHDRAWAL PERIOD(S)**

**9. SPECIAL WARNING(S), IF NECESSARY**

Do not use on rabbits.  
Read package leaflet for user warnings before using the product.

**10. EXPIRY DATE**

EXP {month/year}

**11. SPECIAL STORAGE CONDITIONS**

**12. SPECIFIC PRECAUTIONS FOR THE DISPOSAL OF UNUSED PRODUCTS OR WASTE MATERIALS, IF ANY**

Disposal: read the package leaflet.

**13. THE WORDS “FOR ANIMAL TREATMENT ONLY” AND CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE, if applicable**

For animal treatment only.

**14. THE WORDS “KEEP OUT OF THE SIGHT AND REACH OF CHILDREN”**

Keep out of the sight and reach of children.

**15. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER**

Ceva Animal Health Ltd  
Explorer House  
Mercury Park  
Wycombe Lane  
Wooburn Green  
High Wycombe  
Buckinghamshire  
HP10 0HH  
United Kingdom

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

Vm 15052/4066

**17. MANUFACTURER'S BATCH NUMBER**

Lot:

**MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS**

**Pipette label**

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

Duoflect  
Spot-on



10-20 kg  
20-40 kg  
40-60 kg

**2. QUANTITY OF THE ACTIVE SUBSTANCE(S)**

**3. CONTENTS BY WEIGHT, BY VOLUME OR BY NUMBER OF DOSES**

**4. ROUTE(S) OF ADMINISTRATION**

**5. WITHDRAWAL PERIOD**

**6. BATCH NUMBER**

Lot:

**7. EXPIRY DATE**

EXP:

**8. THE WORDS "FOR ANIMAL TREATMENT ONLY"**

**MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS**

**Blister**

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

Duoflect  
Spot-on



10-20 kg  
20-40 kg  
40-60 kg

Fipronil 240 mg / (S)-methoprene 120 mg  
Fipronil 479 mg / (S)-methoprene 240 mg  
Fipronil 721 mg / (S)-methoprene 360 mg

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



**3. EXPIRY DATE**

EXP:

**4. BATCH NUMBER**

Lot:

**5. THE WORDS "FOR ANIMAL TREATMENT ONLY"**

For animal treatment only.

## **B. PACKAGE LEAFLET**

**PACKAGE LEAFLET**  
**Duoflect spot-on solution for dogs 10-20 kg**  
**Duoflect spot-on solution for dogs 20-40 kg**  
**Duoflect spot-on solution for dogs 40-60 kg**

**1. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER AND OF THE MANUFACTURING AUTHORISATION HOLDER RESPONSIBLE FOR BATCH RELEASE, IF DIFFERENT**

Marketing authorisation holder:

Ceva Animal Health Ltd  
Explorer House  
Mercury Park  
Wycombe Lane  
Wooburn Green  
High Wycombe  
Buckinghamshire  
HP10 0HH  
United Kingdom

Manufacturers responsible for batch release:

Ceva Santé Animale  
10, av. de La Ballastière  
33500 Libourne  
France

Klocke Verpackungs-Service GmbH  
Max-Becker-Str. 6  
76356 Weingarten  
Germany

**2. NAME OF THE VETERINARY MEDICINAL PRODUCT**

Duoflect spot-on solution for dogs 10-20 kg  
Duoflect spot-on solution for dogs 20-40 kg  
Duoflect spot-on solution for dogs 40-60 kg  
Fipronil / (S)-methoprene

**3. STATEMENT OF THE ACTIVE SUBSTANCES AND OTHER INGREDIENTS**

This veterinary medicinal product is a clear spot-on yellow solution.

One pipette delivers:



	Volume of unit dose (ml)	Active substances		Excipients	
		Fipronil (mg)	(S)-methoprene (mg)	Butylhydroxyanisole E320 (mg)	Butylhydroxytoluene E321 (mg)
Dogs 10-20 kg	1.4	240	120	0.28	0.28
Dogs 20-40 kg	2.8	479	240	0.56	0.56
Dogs 40-60 kg	4.2	721	360	0.85	0.85

#### 4. INDICATIONS

Treatment and prevention of flea and/or tick infestations.

Treatment and prevention of flea infestations (*Ctenocephalides* spp). Immediate insecticidal efficacy against new infestations with adult fleas persists for 9 weeks. Prevention of the multiplication of fleas by inhibiting the hatching of flea eggs (ovicidal activity) and the development of flea eggs into adult fleas for 8 weeks after application.

Treatment and prevention of tick infestation (*Dermacentor reticulatus*, *Rhipicephalus sanguineus*). The product has immediate acaricidal efficacy and persistent acaricidal efficacy for 6 weeks after application.

The product can be used as part of a treatment strategy for the control of Flea Allergy Dermatitis (FAD) when previously diagnosed by a veterinary surgeon.

#### 5. CONTRAINDICATIONS

Do not use on rabbits as adverse reactions, even mortality could occur.

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

Do not use on sick (e.g. systemic disease, fever) or convalescent animals.

#### 6. ADVERSE REACTIONS

Transient cosmetic effects at the application site such as spiking of the hair, wet appearance, dry residue or slight scaling, were very rarely observed in spontaneous reports. These changes do not affect the safety or the efficacy of the product.

Transient hypersalivation after licking the product was observed very rarely in spontaneous reports mainly due to the excipients of the product. Vomiting after swallowing was observed very rarely in spontaneous reports in dogs.

The frequency of adverse reactions is defined using the following convention:

- very common (more than 1 in 10 animals treated displaying adverse reaction(s))
- common (more than 1 but less than 10 animals in 100 animals treated)
- uncommon (more than 1 but less than 10 animals in 1,000 animals treated)
- rare (more than 1 but less than 10 animals in 10,000 animals treated)
- very rare (less than 1 animal in 10,000 animals treated, including isolated reports)

If you notice any side effects, even those not already listed in this package leaflet or you think that the medicine has not worked, please inform your veterinary surgeon.

## 7. TARGET SPECIES



Dogs 10-20 kg - Dogs 20-40 kg - Dogs 40-60 kg

## 8. DOSAGE FOR EACH SPECIES, ROUTE AND METHOD OF ADMINISTRATION

### Dosage

Dogs 10-20 kg - Dogs 20-40 kg - Dogs 40-60 kg.

One pipette per animal corresponding to the minimal recommended dose of 12 mg/kg body weight (bw) of fipronil and 6 mg/kg bw of (S)-methoprene.

Treatment can be repeated every 6 weeks or as considered appropriate for the type and level of parasitic exposure. In the absence of appropriate studies, the treatment should not be repeated at intervals of less than 2 weeks.

### Route

Spot-on use.

### Administration

Application of the solution near the base of the neck minimises the possibility that the animal will lick the solution off. Care should be taken after the application that animals do not mutually lick off the solution.

Care should be taken to avoid excessive wetting of the hair with the product since this will cause a sticky appearance of hairs at the treatment spot.

## 9. ADVICE ON CORRECT ADMINISTRATION

How to apply:

Disconnect one of the blisters from the card. This helps to avoid accidental opening of the adjacent blisters in order to protect the still unopened pipettes from exposure to humidity. Open the blisters with scissors. To avoid damaging the pipette cut along the line marked with the scissors icon. Carefully peel back the foil from the cut off end and withdraw the pipette.



Hold the pipette upright. Tap lightly to ensure the entire liquid content is within the main body of the pipette. Bend the upper border strip backwards. Then the pipette can be set aside, if necessary. To open the pipette, snap off the top of the pipette along the scored line.



Part the coat between the shoulder blades until the skin is visible. Place the tip of the pipette on the skin and squeeze the pipette several times to empty its content completely and directly onto the skin in one spot.



## 10. WITHDRAWAL PERIOD(S)

## 11. SPECIAL STORAGE PRECAUTIONS

Keep out the sight and reach of children.

This veterinary medicinal product does not require any special storage conditions.

Do not use after the expiry date which is stated on the pipette and on the carton after EXP.

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

## 12. SPECIAL WARNING(S)

### Special precautions for use in animals

For external use only. Do not administer orally.

Avoid contact with the eyes of the animals. If the product is in contact with eyes, rinse immediately with plenty of water.

Do not apply the product on wounds or skin lesions.

Wait for the application site to dry before allowing the treated animal to come into contact with valuable fabrics or furnishings.

It is important to make sure that the 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.

In the absence of additional safety studies, do not repeat the treatment at intervals of less than 2 weeks.

The safety of the product has not been established in animals younger than 8 weeks of age. It has not been evaluated in dogs < 2 kg bw.

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

This product can cause mucous membrane, skin and eye irritation.

Therefore, contact of the product with mouth, skin and eyes should be avoided.

In the case of accidental eye contact immediately and thoroughly flush the eyes with water. If eye irritation persists seek medical advice and show the package leaflet or the label to the physician.

Avoid contents coming into contact with the fingers. If this occurs, wash off immediately with soap and water.

People with known hypersensitivity to fipronil and/or (S)-Methoprene should not treat their animal with this product.

This product may cause neurotoxicity and be harmful if swallowed. Avoid ingestion including hand-to-mouth contact.

Treated animals should not be handled or played with for at least 12-hours after treatment. Animals should be treated in the evening 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.

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

If the product is accidentally swallowed, seek medical advice immediately and show the package leaflet to the physician.

Wash hands thoroughly after use.

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

### **Other precautions**

The attachment of single ticks after treatment cannot be ruled out. Therefore, the transmission of infectious disease cannot be completely excluded if conditions are unfavourable.

All stages of fleas can infest the animal's basket, bedding, and regular resting areas such as carpets and soft furnishings. In cases of massive flea infestation and at the beginning of the control measures these areas should be treated with a suitable environmental product. To reduce environmental flea challenge, all animals living in the same household should also be treated with a suitable flea control product.

For the treatment and control of flea allergy dermatitis it is recommended that allergic patients and all other animals in the household should be treated on a regular basis.

The effect of bathing dogs on the duration of product efficacy against fleas has been studied.

Weekly water immersion of dogs following treatment had no effect on the duration of efficacy. Shampooing of dogs with an emollient shampoo 48 hours prior to treatment had no effect on duration of efficacy. Weekly shampooing with an emollient shampoo in dogs may reduce the duration of efficacy to 3 weeks against adult fleas and to 6 weeks against immature stages of fleas. Weekly bathing with a chlorhexidine shampoo may reduce effectiveness against adult fleas to 3 weeks.

Fipronil and (S) methoprene may adversely affect aquatic organisms. Dogs should not be allowed to swim in watercourses for 2 days after application.

### **Pregnancy and lactation**

Laboratory studies have not produced any evidence of teratogenic or foetotoxic effects with fipronil, although developmental effects (e.g. neurotoxicity) has been shown in rats in one study.

The safety of the veterinary medicinal product has not been established in dogs during pregnancy and lactation. The use of the veterinary medicinal product in pregnant and lactating dogs or in dogs intended for breeding should be done after health care provider assessment.

### **Overdose (symptoms, emergency procedures, antidotes)**

No adverse effects were observed in a target animal safety studies conducted in 8 weeks old puppies ( $\pm 2$  kg bw) treated on 7 consecutive occasions at 2 weeks intervals with up to 5x the recommended dose.

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

None known.

### **13. SPECIAL PRECAUTIONS FOR THE DISPOSAL OF UNUSED PRODUCT OR WASTE MATERIALS, IF ANY**

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 enter water courses as this may be dangerous for fish and other aquatic organisms.

### **14. DATE ON WHICH THE PACKAGE LEAFLET WAS LAST APPROVED**

September 2022

### **15. OTHER INFORMATION**

#### **Pharmacodynamic properties**

**Fipronil** is an insecticide and acaricide belonging to the phenylpyrazole family. It acts by interacting with ligand-gated chloride channels, in particular those gated by the neurotransmitter gamma-aminobutyric acid (GABA), 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 arthropods such as fleas and ticks. Fipronil acts by contact. After topical administration, fipronil accumulates itself in sebaceous glands and is released progressively on hair surface via follicular ducts. Fipronil usually kills fleas within 24 hours and ticks within 48 hours.

**(S)-methoprene** is an insect growth regulator (IGR) of the class of compounds known as juvenile hormone analogues that inhibit the development of immature stages of insects. This compound mimics the action of juvenile hormone and causes impaired development and death of the developing stages of fleas. (S)-methoprene acts by contact. The on-animal ovicidal activity of (S)-methoprene results from either inhibition of egg laying by absorption through the cuticle of the adult fleas or from inhibition of egg hatching by direct penetration in newly laid eggs. In the environment of the treated animal, (S)-methoprene is also effective in the elimination of flea larvae and pupae, preventing these stages from developing into adults. This prevents further contamination with newly emerged adult fleas.

#### **Pharmacokinetic particulars**

##### Fipronil

Fipronil is poorly absorbed through the skin. After topical application in clinical conditions (licking not prevented):

Peak fipronil plasma concentrations (mean  $C_{max}$  25.5 ng/ml) are slowly attained (mean  $t_{max}$  approximately 96 h). Fipronil is metabolized to fipronil sulfone. Fipronil and its major metabolite, are well-distributed in the haircoat of dogs after topical administration.

(S)-methoprene

Plasma concentrations of S-methoprene were generally below the limit of quantification (10 ng/mL) after topical application.

Pack sizes:

Cardboard box of 1, 3, 6, 12, 24, 60 and 120 pipettes.

Not all pack sizes may be marketed.

Pipettes are packed in child resistant blisters.

Approved 27 September 2022

A handwritten signature in black ink, appearing to read "A. Hunter.", is positioned below the approval date.