

## **SUMMARY OF PRODUCT CHARACTERISTICS**

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

Merlin 1.04 g medicated collar for large sized dogs

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

Each 65 cm collar (26 g) contains:

**Active substance** : Deltamethrin 1.04 g

**Excipients:**

<b>Qualitative composition of excipients and other constituents</b>
Carbon black
Epoxidized soybean oil
Diisonyl adipate
Triphenyl phosphate
Polyvinyl chloride
Calcium stearate
Zinc stearate
Stearic acid

Black medicated collar, which releases a white powder.

### **3. CLINICAL INFORMATION**

#### **3.1 Target species**

Dogs

#### **3.2 Indications for use for each target species**

The veterinary medicinal product provides:

- Persistent flea (*Ctenocephalides felis*) killing activity for 16 weeks;
- Persistent tick (*Ixodes ricinus*) killing activity for 6 months;
- Sandfly (*Phlebotomus perniciosus*) anti-feeding and killing activity for 5.5 months.

#### **3.3 Contraindications**

Do not use in puppies less than 7 weeks of age.

Do not use on dogs with skin lesions.

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

Do not use on cats. Deltamethrin is harmful to cats.

### **3.4 Special warnings**

As the collar exerts its full effect after one week, the collar should preferably be applied 1 week before animals are likely to become exposed to infestation.

Ticks and sandflies will be killed and fall off the host within 48 and 24 hours after exposure, respectively, without having had a blood meal, as a rule. An attachment of single ticks or bite of single sandflies after treatment cannot be excluded. For this reason, transmission of infectious diseases by ticks or sandflies cannot be completely excluded if conditions are unfavourable.

For optimal control of flea infestations in multi-pet households, all dogs in the household should be treated at the same time.

Fleas from pets often infest the animal's basket, bedding and regular resting areas, such as carpets and soft furnishings. These should be treated in cases of massive infestation and upon the initiation of control measures with a suitable insecticide, and vacuumed regularly.

The influence of shampooing on the duration of efficacy has not been investigated. Occasional contact with water does not reduce the effectiveness of the collar.

Unnecessary use of antiparasitics or use deviating from the instructions given in the SPC may increase the resistance selection pressure and lead to reduced efficacy. The decision to use the product should be based on confirmation of the parasitic species and burden, or of the risk of infestation based on its epidemiological features, for each individual dog.

Resistance to pyrethroids and in particular to deltamethrin has been reported in fleas (*C. felis*) and ticks (*Rhipicephalus sanguineus*) in dogs. The use of this product should take into account local information about susceptibility of the target parasites, where available."

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

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

In case of skin lesions, remove the collar until symptoms have resolved.

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

Accidental ingestion of this veterinary medicinal product may cause adverse reactions, including neurotoxic effects.

Keep the collar in the sachet until use. Do not smoke, eat or drink while handling the collar. Do not allow children to play with the collar or to put it into their mouths.

Immediately dispose of any remnants or cut-offs of the collar. Wash hands with cold water after fitting the collar.

Avoid prolonged contact with the collar or dog wearing the collar. This includes sharing a bed with dogs wearing the collar; this is particularly important for children. In case of accidental oral exposure or ingestion, seek medical advice immediately and show the package leaflet or the label to the physician.

Deltamethrin may cause hypersensitivity (allergic) reactions in sensitive people. People with known hypersensitivity to deltamethrin should avoid contact with the veterinary medicinal product and the treated animal. Seek medical advice in case of hypersensitivity reactions.

Special precautions for the protection of the environment:

Deltamethrin is toxic for aquatic organisms. Dogs wearing the collar are not allowed to enter watercourses.

### 3.6 Adverse events

Dogs

Rare (1 to 10 animals / 10,000 animals treated):	Localised skin reactions (pruritus, erythema, hair loss) <sup>1</sup> ,
Very rare (<1 animal / 10,000 animals treated, including isolated reports):	Altered behaviour (lethargy, hyperactivity) <sup>2</sup> , Digestive tract disorders (vomiting, diarrhoea, hypersalivation), Neuromuscular disorders (such as ataxia, muscle tremor) <sup>3</sup>

<sup>1</sup>involving the neck or skin in general

<sup>2</sup>often associated with skin irritation

<sup>3</sup>the symptoms usually subside within 48 hours after removal of the collar

If any of these symptoms occur, the collar should be removed and contact with a veterinarian is advised.

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, its local representative, or the national competent authority via the national reporting system. See also the bottom of the package leaflet for respective contact details.

### 3.7 Use during pregnancy, lactation or lay

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

Pregnancy and lactation:

Use only according to the benefit/risk assessment by the responsible veterinarian. Laboratory studies have not produced any evidence of a teratogenic or embryotoxic effects.

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

Do not use with other ectoparasiticides (pyrethroids, organophosphates).

### **3.9 Administration routes and dosage**

Cutaneous use . One collar per dog is to be fastened around the neck. Remove the collar from the protective sachet right before use. Fit the collar around the animal's neck neither too loose nor too tight: two fingers side-by side should fit between the collar and the dog's neck. Cut off any excess length extending beyond 5 cm. Check periodically and adjust the fit easily by applying pressure on top of the buckle and then sliding the collar into the correct position.



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

In the unlikely event of the dog eating the collar, the following symptoms may occur: Uncoordinated movements, tremor, drooling of saliva, vomiting, rigidity of the hindquarters. These symptoms usually subside within 48 hours. For more information concerning symptomatic treatment it is advised to contact your local veterinarian.

### **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: QP53AC11**

**4.2 Pharmacodynamics**

Deltamethrin is an ectoparasiticide of the pyrethroid class. Insects and acarines are exposed to deltamethrin through contact. The mechanism of action is based on a sustained increase in the sodium permeability of the insect's nerve membranes. This results in hyperactivity followed by paralysis (shock effect), tremor and death of the parasite.

#### **4.3 Pharmacokinetics**

Deltamethrin is slowly and continuously released from the collar into the dogs' coat. The active substance spreads from the site of direct contact over the entire skin surface through the lipids and in the hair. Deltamethrin is not absorbed systemically by the host.

### **5. PHARMACEUTICAL PARTICULARS**

#### **5.1 Major incompatibilities**

Not applicable.

#### **5.2 Shelf life**

Shelf life of the veterinary medicinal product as packaged for sale: 30 months  
Shelf life after first opening the immediate packaging: use immediately.

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

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

Keep the sachet(s) in the outer carton.

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

Material of the primary packaging:  
PET/PE/aluminium/surlyn sachet containing one collar.

Pack sizes:

Cardboard box containing 1 or 2 child resistant sachets.  
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 deltamethrin 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**

Beaphar B.V.  
Drostenkamp 3  
8101 BX Raalte  
Netherlands

**7. MARKETING AUTHORISATION NUMBER**

Vm 41941/3003

**8. DATE OF FIRST AUTHORISATION**

06 September 2018

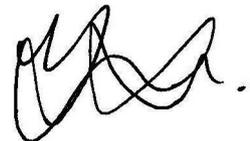
**9. DATE OF THE LAST REVISION OF THE SUMMARY OF THE PRODUCT CHARACTERISTICS**

May 2023

**10. CLASSIFICATION OF VETERINARY MEDICINAL PRODUCTS**

Veterinary medicinal product not subject to prescription:  
ES, IT, PT, UK(NI).

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



Approved: 15 May 2023