

**ANNEX I**  
**SUMMARY OF PRODUCT CHARACTERISTICS**

## 1. NAME OF THE VETERINARY MEDICINAL PRODUCT

Stronghold 15 mg spot-on solution for cats and dogs  $\leq 2.5$  kg  
Stronghold 30 mg spot-on solution for dogs 2.6–5.0 kg  
Stronghold 45 mg spot-on solution for cats 2.6–7.5 kg  
Stronghold 60 mg spot-on solution for cats 7.6–10.0 kg  
Stronghold 60 mg spot-on solution for dogs 5.1–10.0 kg  
Stronghold 120 mg spot-on solution for dogs 10.1–20.0 kg  
Stronghold 240 mg spot-on solution for dogs 20.1–40.0 kg  
Stronghold 360 mg spot-on solution for dogs 40.1–60.0 kg

## 2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each single-dose (pipette) delivers:

### Active substance:

	unit dose (ml)	selamectin (mg)
Stronghold 15 mg for cats and dogs	0.25	15
Stronghold 30 mg for dogs	0.25	30
Stronghold 45 mg for cats	0.75	45
Stronghold 60 mg for cats	1	60
Stronghold 60 mg for dogs	0.5	60
Stronghold 120 mg for dogs	1	120
Stronghold 240 mg for dogs	2	240
Stronghold 360 mg for dogs	3	360

### Excipients:

Qualitative composition of excipients and other constituents	Quantitative composition if that information is essential for proper administration of the veterinary medicinal product
Butylated hydroxytoluene	0.8 mg/ml
Dipropylene glycol methyl ether	
Isopropyl alcohol	

Colourless to yellow solution.

## 3. CLINICAL INFORMATION

### 3.1 Target species

Dogs and cats.

### 3.2 Indications for use for each target species

#### Cats and dogs:

- **Treatment and prevention of flea infestations** caused by *Ctenocephalides* spp. for one month following a single administration. This is as a result of the adulticidal, larvicidal and ovicidal properties of the product. The product is ovicidal for 3 weeks after administration. Through a reduction in the flea population, monthly treatment of pregnant and lactating animals will also aid in the prevention of flea infestations in the litter up to seven weeks of age. The product can be used as part of a treatment strategy for flea allergy dermatitis and through its ovicidal and

larvicidal action may aid in the control of existing environmental flea infestations in areas to which the animal has access.

- **Prevention of heartworm disease** caused by *Dirofilaria immitis* with monthly administration. The veterinary medicinal product may be safely administered to animals infected with adult heartworms, however, it is recommended, in accordance with good veterinary practice, that all animals 6 months of age or more living in countries where a vector exists should be tested for existing adult heartworm infections before the administration of the veterinary medicinal product. It is also recommended that dogs should be tested periodically for adult heartworm infections, as an integral part of a heartworm prevention strategy, even when the veterinary medicinal product has been administered monthly. This product is not effective against adult *D. immitis*.
- **Treatment of ear mites** (*Otodectes cynotis*).

#### **Cats:**

- Treatment of biting lice infestations (*Felicola subrostratus*)
- Treatment of adult roundworms (*Toxocara cati*)
- Treatment of adult intestinal hookworms (*Ancylostoma tubaeforme*).

#### **Dogs:**

- Treatment of biting lice infestations (*Trichodectes canis*)
- Treatment of sarcoptic mange (caused by *Sarcoptes scabiei*)
- Treatment of adult intestinal roundworms (*Toxocara canis*).

### **3.3 Contraindications**

Do not use in animals under 6 weeks of age.

Do not use in cats that are suffering from concomitant disease, or are debilitated and underweight (for size and age).

### **3.4 Special warnings**

Animals may be bathed 2 hours after treatment without loss of efficacy.

Do not apply when the animal's hair coat is wet. However, shampooing or soaking the animal 2 or more hours after treatment will not reduce the efficacy of the product.

For ear mite treatment, do not apply directly to the ear canal.

It is important to apply the dose as indicated to minimise the quantity that the animal can lick off. If significant licking does occur, a brief period of hypersalivation may rarely be observed in cats.

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

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

This veterinary medicinal product is to be applied to the skin surface only. Do not administer orally or parenterally.

Keep treated animals away from fires and other sources of ignition for at least 30 minutes or until the hair coat is dry.

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

This product is highly flammable; keep away from heat, sparks, open flames or other sources of ignition.

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

Wash hands after use and wash off any product in contact with the skin immediately with soap and water. In case of accidental eye exposure, flush the eyes immediately with water, seek medical advice immediately and show the package leaflet or the label to the physician.

Avoid direct contact with treated animals until the application site is dry. On the day of treatment, children must not handle treated animals and the animals should not be permitted to sleep with their owners, especially children. Used applicators should be disposed of immediately and not left within the sight or reach of children.

People with sensitive skin or known allergy to veterinary medicinal products of this type should handle the veterinary medicinal product with caution.

Special precautions for the protection of the environment:

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

Other precautions:

Do not allow treated animals to bathe in water courses until at least two hours after treatment administration.

**3.6 Adverse events**

Cats:

Rare (1 to 10 animals / 10 000 animals treated):	application site alopecia <sup>1,2</sup> , application site hair changes <sup>3</sup>
Very rare (<1 animal / 10 000 animals treated, including isolated reports):	application site irritation <sup>1,4</sup> , neurological signs (including seizures) <sup>5</sup>

Dogs:

Rare (1 to 10 animals / 10 000 animals treated):	application site hair changes <sup>3</sup>
Very rare (<1 animal / 10 000 animals treated, including isolated reports):	neurological signs (including seizures) <sup>5</sup>

<sup>1</sup>Normally self-resolving, but symptomatic therapy may be applicable in some circumstances.

<sup>2</sup>Mild and transient.

<sup>3</sup>Local temporary clumping of the hair at the application site and/or an occasional appearance of a small quantity of a white powder which typically disappear within 24 hours of treatment administration and does not affect either the safety or efficacy of the veterinary medicinal product.

<sup>4</sup>Transient and focal.

<sup>5</sup>Reversible as with other macrocyclic lactones.

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 also section ‘Contact details’ of the package leaflet.

### 3.7 Use during pregnancy, lactation or lay

#### Pregnancy and lactation:

Can be used in pregnant and lactating cats and dogs.

#### Fertility:

Can be used in breeding cats and dogs.

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

In extensive field testing no interactions between this veterinary medicinal product and routinely used veterinary medicinal products or medical or surgical procedures were observed.

### 3.9 Administration routes and dosage

The veterinary medicinal product should be administered as a single application of a single dose delivering a minimum of 6 mg/kg selamectin. When concurrent infestations or infections in the same animal are to be treated with the veterinary medicinal product, only one application of the recommended 6 mg/kg dose should be administered at any one time. The appropriate length of the treatment period for individual parasites is specified below.

Administer in accordance with the following table:

Cats (kg)	Pipette cap colour	mg of selamectin dispensed	Potency (mg/ml)	Administered volume (nominal pipette size, ml)
≤ 2.5	Rose	15	60	0.25
2.6–7.5	Blue	45	60	0.75
7.6–10.0	Taupe	60	60	1.0
> 10		Appropriate combination of pipettes	60	Appropriate combination of pipettes

Dogs (kg)	Pipette cap colour	mg of selamectin dispensed	Potency (mg/ml)	Administered volume (nominal pipette size, ml)
≤ 2.5	Rose	15	60	0.25
2.6–5.0	Violet	30	120	0.25
5.1–10.0	Brown	60	120	0.5
10.1–20.0	Red	120	120	1.0
20.1–40.0	Green	240	120	2.0
40.1–60.0	Plum	360	120	3.0
> 60		Appropriate combination of pipettes	60/120	Appropriate combination of pipettes

#### **Flea treatment and prevention (cats and dogs)**

Following administration of the veterinary medicinal product, the adult fleas on the animal are killed, no viable eggs are produced, and larvae (found only in the environment) are also killed. This stops flea reproduction, breaks the flea lifecycle and may aid in the control of existing environmental flea infestations in areas to which the animal has access.

For the prevention of flea infestations, the veterinary medicinal product should be administered at monthly intervals throughout the flea season, starting one month before fleas become active. Through a reduction in the flea population, monthly treatment of pregnant and lactating animals will aid prevention of flea infestations in the litter up to seven weeks of age.

For use as part of a treatment strategy for flea allergy dermatitis the veterinary medicinal product should be administered at monthly intervals.

### **Prevention of heartworm disease (cats and dogs)**

The veterinary medicinal product may be administered year-round or at least within one month of the animal's first exposure to mosquitoes and monthly thereafter until the end of the mosquito season. The final dose must be given within one month after the last exposure to mosquitoes. If a dose is missed and a monthly interval between dosing is exceeded then immediate administration of the veterinary medicinal product and resumption of monthly dosing will minimise the opportunity for the development of adult heartworms. When replacing another heartworm preventive veterinary medicinal product in a heartworm disease prevention programme, the first dose of the veterinary medicinal product must be given within a month of the last dose of the former medication.

### **Treatment of roundworm infections (cats and dogs)**

A single dose of the veterinary medicinal product should be administered.

### **Treatment of biting lice (cats and dogs)**

A single dose of the veterinary medicinal product should be administered.

### **Treatment of ear mites (cats)**

A single dose of the veterinary medicinal product should be administered.

### **Treatment of ear mites (dogs)**

A single dose of the veterinary medicinal product should be administered. Loose debris should be gently removed from the external ear canal at the time of treatment. A further veterinary examination 30 days after treatment is recommended as some animals may require a second treatment.

### **Treatment of hookworm infections (cats)**

A single dose of the veterinary medicinal product should be administered.

### **Treatment of sarcoptic mange (dogs)**

For complete elimination of the mites, a single dose of the veterinary medicinal product should be administered for two consecutive months.

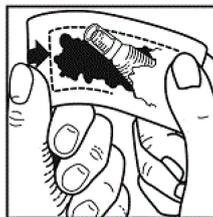
### Method and route of administration:

Spot-on use.

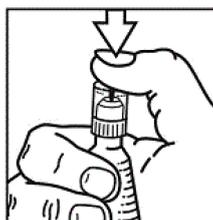
Apply to the skin at the base of the neck in front of the shoulder blades.

### How to apply:

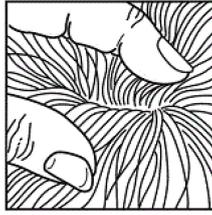
Remove the pipette from its protective package



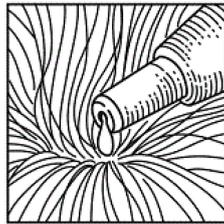
Holding the pipette upright, firmly depress the cap to puncture the applicator seal, then remove the cap.



Part the hair at the base of your animal's neck in front of the shoulder blades to expose a small area of skin.



Apply the tip of the pipette directly to the skin without massaging. Squeeze the pipette firmly to empty the contents in one spot. Avoid contact between the veterinary medicinal product and your fingers.



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

The veterinary medicinal product was administered at 10 times the recommended dose, and no undesirable effects were observed. The veterinary medicinal product was administered at 3 times the recommended dose to cats and dogs infected with adult heartworms and no undesirable effects were observed. The veterinary medicinal product was also administered at 3 times the recommended dose to breeding male and female cats and dogs, including pregnant and lactating females nursing their litters and at 5 times the recommended dose to ivermectin-sensitive Collies, and no undesirable effects were observed.

### **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: QP54AA05**

### **4.2 Pharmacodynamics**

Selamectin is a semi-synthetic compound of the avermectin class. Selamectin paralyzes and/or kills a wide range of invertebrate parasites through interference with their chloride channel conductance causing disruption of normal neurotransmission. This inhibits the electrical activity of nerve cells in nematodes and muscle cells in arthropods leading to their paralysis and/or death.

Selamectin has adulticidal, ovicidal and larvicidal activity against fleas. Therefore, it effectively breaks the flea life cycle by killing adults (on the animal), preventing the hatching of eggs (on the

animal and in its environment) and by killing larvae (environment only). Debris from selamectin-treated pets kills flea eggs and larvae not previously exposed to selamectin and thus may aid in the control of existing environmental flea infestations in areas to which the animal has access.

Activity has also been demonstrated against heartworm larvae.

### **4.3 Pharmacokinetics**

Following spot on administration selamectin is absorbed from the skin reaching maximum plasma concentrations approximately 1 and 3 days after administration in cats and dogs respectively. Following absorption from the skin selamectin distributes systemically and is slowly eliminated from plasma as manifested in detectable plasma concentrations in dogs and cats 30 days after administration of a single topical dose at 6 mg/kg. The prolonged persistence and slow elimination of selamectin from plasma is reflected in the terminal elimination half-life values of 8 and 11 days in cats and dogs respectively. The systemic persistence of selamectin in plasma and the lack of extensive metabolism provide effective concentrations of selamectin for the duration of the inter-dosing interval (30 days).

## **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.

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

Do not store above 30 °C.

Store in the original package in a dry place.

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

The veterinary medicinal product is available in packs of three pipettes (all pipette sizes), six pipettes (all pipette sizes except 15 mg selamectin), or fifteen pipettes (15 mg selamectin pipette size only). The veterinary medicinal product is in translucent polypropylene single-dose pipettes in an aluminium and aluminium/PVC blister overwrap.

Stronghold 15 mg spot-on solution for cats and dogs ≤ 2.5 kg: 0.25 ml per pipette

Stronghold 30 mg spot-on solution for dogs 2.6–5.0 kg: 0.25 ml per pipette

Stronghold 45 mg spot-on solution for cats 2.6–7.5 kg: 0.75 ml per pipette

Stronghold 60 mg spot-on solution for cats 7.6–10.0 kg: 1 ml per pipette

Stronghold 60 mg spot-on solution for dogs 5.1–10.0 kg: 0.5 ml per pipette

Stronghold 120 mg spot-on solution for dogs 10.1–20.0 kg: 1 ml per pipette

Stronghold 240 mg spot-on solution for dogs 20.1–40.0 kg: 2 ml per pipette

Stronghold 360 mg spot-on solution for dogs 40.1–60.0 kg: 3 ml per pipette

Not all pack sizes may be marketed.

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

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

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**

Zoetis Belgium

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

EU/2/99/014/001-016

**8. DATE OF FIRST AUTHORISATION**

Date of first authorisation: 25/11/1999.

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

**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>).

**ANNEX II**

**OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORISATION**

None

**ANNEX III**  
**LABELLING AND PACKAGE LEAFLET**

## **A. LABELLING**

**PARTICULARS TO APPEAR ON THE OUTER PACKAGE**

**CARTON LABEL, 15 mg (3 and 15 pipettes)**

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

Stronghold 15 mg spot-on solution

**2. STATEMENT OF ACTIVE SUBSTANCES**

15 mg selamectin/pipette

**3. PACKAGE SIZE**

3 x 0.25 ml  
15 x 0.25 ml

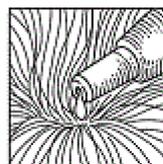
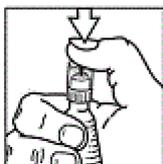
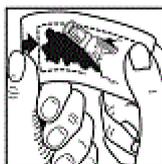
**4. TARGET SPECIES**

Cats and dogs weighing  $\leq 2.5$  kg.

**5. INDICATIONS**

**6. ROUTES OF ADMINISTRATION**

Spot-on use.



**7. WITHDRAWAL PERIODS**

**8. EXPIRY DATE**

Exp. {mm/yyyy}

**9. SPECIAL STORAGE PRECAUTIONS**

Do not store above 30 °C.  
Store in the original package in a dry place.

**10. THE WORDS “READ THE PACKAGE LEAFLET BEFORE USE”**

Read the package leaflet before use.

**11. THE WORDS “FOR ANIMAL TREATMENT ONLY”**

For animal treatment only.

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

Keep out of the sight and reach of children.

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

Zoetis Belgium

**14. MARKETING AUTHORISATION NUMBERS**

EU/2/99/014/001 (3 pipettes)  
EU/2/99/014/012 (15 pipettes)

**15. BATCH NUMBER**

Lot {number}

**PARTICULARS TO APPEAR ON THE OUTER PACKAGE**

**CARTON LABEL, 30 mg, 60 mg, 120 mg, 240 mg, 360 mg (3 and 6 pipettes)**

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

Stronghold 30 mg spot-on solution  
Stronghold 60 mg spot-on solution  
Stronghold 120 mg spot-on solution  
Stronghold 240 mg spot-on solution  
Stronghold 360 mg spot-on solution

**2. STATEMENT OF ACTIVE SUBSTANCES**

30 mg selamectin/pipette  
60 mg selamectin/pipette  
120 mg selamectin/pipette  
240 mg selamectin/pipette  
360 mg selamectin/pipette

**3. PACKAGE SIZE**

3 x 0.25 ml  
6 x 0.25 ml  
3 x 0.75 ml  
6 x 0.75 ml  
3 x 0.5 ml  
6 x 0.5 ml  
3 x 1 ml  
6 x 1 ml  
3 x 2 ml  
6 x 2 ml  
3 x 3 ml  
6 x 3 ml

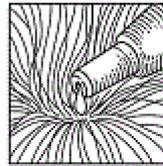
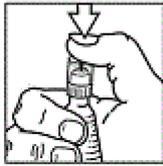
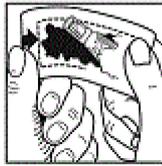
**4. TARGET SPECIES**

Dogs weighing 2.6–5.0 kg.  
Dogs weighing 5.1–10.0 kg.  
Dogs weighing 10.1–20.0 kg.  
Dogs weighing 20.1–40.0 kg.  
Dogs weighing 40.1–60.0 kg.

**5. INDICATIONS**

**6. ROUTES OF ADMINISTRATION**

Spot-on use.



## 7. WITHDRAWAL PERIODS

## 8. EXPIRY DATE

Exp. {mm/yyyy}

## 9. SPECIAL STORAGE PRECAUTIONS

Do not store above 30 °C.  
Store in the original package in a dry place.

## 10. THE WORDS “READ THE PACKAGE LEAFLET BEFORE USE”

Read the package leaflet before use.

## 11. THE WORDS “FOR ANIMAL TREATMENT ONLY”

For animal treatment only.

## 12. THE WORDS “KEEP OUT OF THE SIGHT AND REACH OF CHILDREN”

Keep out of the sight and reach of children.

## 13. NAME OF THE MARKETING AUTHORISATION HOLDER

Zoetis Belgium

## 14. MARKETING AUTHORISATION NUMBERS

EU/2/99/014/003 (30 mg - 3 pipettes)  
EU/2/99/014/007 (30 mg - 6 pipettes)  
EU/2/99/014/004 (60 mg - 3 pipettes)  
EU/2/99/014/009 (60 mg - 6 pipettes)  
EU/2/99/014/005 (120 mg - 3 pipettes)  
EU/2/99/014/010 (120 mg - 6 pipettes)  
EU/2/99/014/006 (240 mg - 3 pipettes)  
EU/2/99/014/011 (240 mg - 6 pipettes)  
EU/2/99/014/015 (360 mg - 3 pipettes)

EU/2/99/014/016 (360 mg - 6 pipettes)

**15. BATCH NUMBER**

Lot {number}

**PARTICULARS TO APPEAR ON THE OUTER PACKAGE**

**CARTON LABEL, 45 mg, 60 mg (3 and 6 pipettes)**

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

Stronghold 45 mg spot-on solution.  
Stronghold 60 mg spot-on solution.

**2. STATEMENT OF ACTIVE SUBSTANCES**

45 mg selamectin/pipette  
60 mg selamectin/pipette

**3. PACKAGE SIZE**

3 x 0.75 ml  
6 x 0.75 ml  
3 x 1 ml  
6 x 1 ml

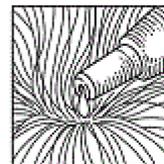
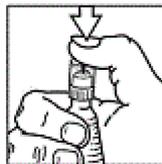
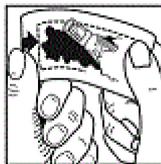
**4. TARGET SPECIES**

Cats weighing 2.6–7.5 kg.  
Cats weighing 7.6–10.0 kg.

**5. INDICATIONS**

**6. ROUTES OF ADMINISTRATION**

Spot-on use.



**7. WITHDRAWAL PERIODS**

**8. EXPIRY DATE**

Exp. {mm/yyyy}

**9. SPECIAL STORAGE PRECAUTIONS**

Do not store above 30 °C.  
Store in the original package in a dry place.

**10. THE WORDS “READ THE PACKAGE LEAFLET BEFORE USE”**

Read the package leaflet before use.

**11. THE WORDS “FOR ANIMAL TREATMENT ONLY”**

For animal treatment only.

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

Keep out of the sight and reach of children.

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

Zoetis Belgium

**14. MARKETING AUTHORISATION NUMBERS**

EU/2/99/014/002 (45 mg - 3 pipettes)  
EU/2/99/014/008 (45 mg - 6 pipettes)  
EU/2/99/014/013 (60 mg - 3 pipettes)  
EU/2/99/014/014 (60 mg - 6 pipettes)

**15. BATCH NUMBER**

Lot {number}

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

**FOIL LABEL, 15 mg, 30 mg, 45 mg, 60 mg, 120 mg, 240 mg, 360 mg**

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

Stronghold



**2. QUANTITATIVE PARTICULARS OF THE ACTIVE SUBSTANCES**

15 mg selamectin for cats and dogs  $\leq 2.5$  kg.

30 mg selamectin for dogs 2.6–5.0 kg.

45 mg selamectin for cats 2.6–7.5 kg.

60 mg selamectin for cats 7.6–10.0 kg.

60 mg selamectin for dogs 5.1–10.0 kg.

120 mg selamectin for dogs 10.1–20.0 kg.

240 mg selamectin for dogs 20.1–40.0 kg.

360 mg selamectin for dogs 40.1–60.0 kg.

**3. BATCH NUMBER**

Lot {number}

**4. EXPIRY DATE**

Exp. {mm/yyyy}

**B. PACKAGE LEAFLET**

## PACKAGE LEAFLET

### 1. Name of the veterinary medicinal product

Stronghold 15 mg spot-on solution for cats and dogs  $\leq 2.5$  kg

Stronghold 30 mg spot-on solution for dogs 2.6–5.0 kg

Stronghold 45 mg spot-on solution for cats 2.6–7.5 kg

Stronghold 60 mg spot-on solution for cats 7.6–10.0 kg

Stronghold 60 mg spot-on solution for dogs 5.1–10.0 kg

Stronghold 120 mg spot-on solution for dogs 10.1–20.0 kg

Stronghold 240 mg spot-on solution for dogs 20.1–40.0 kg

Stronghold 360 mg spot-on solution for dogs 40.1–60.0 kg

### 2. Composition

Each single-dose (pipette) delivers:

	unit dose (ml)	selamectin (mg)
Stronghold 15 mg for cats and dogs	0.25	15
Stronghold 30 mg for dogs	0.25	30
Stronghold 45 mg for cats	0.75	45
Stronghold 60 mg for cats	1	60
Stronghold 60 mg for dogs	0.5	60
Stronghold 120 mg for dogs	1	120
Stronghold 240 mg for dogs	2	240
Stronghold 360 mg for dogs	3	360

### Excipients:

Butylated hydroxytoluene 0.8 mg/ml

Colourless to yellow solution.

### 3. Target species

Dogs and cats.

### 4. Indications for use

#### Cats and dogs:

- **Treatment and prevention of flea infestations** caused by *Ctenocephalides* spp. for one month following a single administration. This is as a result of the adulticidal, larvicidal and ovicidal properties of the veterinary medicinal product. The veterinary medicinal product is ovicidal for 3 weeks after administration. Through a reduction in the flea population, monthly treatment of pregnant and lactating animals will also aid in the prevention of flea infestations in the litter up to seven weeks of age. The veterinary medicinal product can be used as part of a treatment strategy for flea allergy dermatitis and through its ovicidal and larvicidal action may aid in the control of existing environmental flea infestations in areas to which the animal has access.
- **Prevention of heartworm disease** caused by *Dirofilaria immitis* with monthly administration. The veterinary medicinal product may be safely administered to animals infected with adult heartworms, however, it is recommended, in accordance with good veterinary practice, that all animals 6 months of age or more living in countries where a vector exists should be tested for

existing adult heartworm infections before the administration of the veterinary medicinal product. It is also recommended that dogs should be tested periodically for adult heartworm infections, as an integral part of a heartworm prevention strategy, even when the veterinary medicinal product has been administered monthly. This veterinary medicinal product is not effective against adult *D. immitis*.

- **Treatment of ear mites** (*Otodectes cynotis*).

#### **Cats:**

- Treatment of biting lice infestations (*Felicola subrostratus*)
- Treatment of adult roundworms (*Toxocara cati*)
- Treatment of adult intestinal hookworms (*Ancylostoma tubaeforme*).

#### **Dogs:**

- Treatment of biting lice infestations (*Trichodectes canis*)
- Treatment of sarcoptic mange (caused by *Sarcoptes scabiei*)
- Treatment of adult intestinal roundworms (*Toxocara canis*).

## **5. Contraindications**

Do not use in animals under 6 weeks of age. Do not use in cats that are suffering from concomitant disease, or are debilitated and underweight (for size and age).

## **6. Special warnings**

### Special warnings:

Animals may be bathed 2 hours after treatment without loss of efficacy.

Do not apply when the animal's hair coat is wet. However, shampooing or soaking the animal 2 or more hours after treatment will not reduce the efficacy of the product.

For ear mite treatment, do not apply directly to the ear canal.

It is important to apply the dose as indicated to minimise the quantity that the animal can lick off. If significant licking does occur, a brief period of hypersalivation may rarely be observed in cats.

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

This veterinary medicinal product is to be applied to the skin surface only. Do not administer orally or parenterally.

Keep treated animals away from fires and other sources of ignition for at least 30 minutes or until the hair coat is dry.

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

This product is highly flammable; keep away from heat, sparks, open flames or other sources of ignition.

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

Wash hands after use and wash off any product in contact with the skin immediately with soap and water. In case of accidental eye exposure, flush the eyes immediately with water, seek medical advice immediately and show the package leaflet or the label to the physician.

Avoid direct contact with treated animals until the application site is dry. On the day of treatment, children must not handle treated animals and the animals should not be permitted to sleep with their owners, especially children. Used applicators should be disposed of immediately and not left within the sight or reach of children.

People with sensitive skin or known allergy to veterinary medicinal products of this type should handle the veterinary medicinal product with caution.

Special precautions for the protection of the environment:

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

Other precautions:

Do not allow treated animals to bathe in water courses until at least two hours after treatment administration.

Pregnancy and lactation:

Can be used in pregnant and lactating cats and dogs.

Fertility:

Can be used in breeding cats and dogs.

Interaction with other medicinal products and other forms of interaction:

In extensive field testing no interactions between the veterinary medicinal product and routinely used veterinary medicinal products or medical or surgical procedures were observed.

Overdose:

The veterinary medicinal product was administered at 10 times the recommended dose, and no undesirable effects were observed. The veterinary medicinal product was administered at 3 times the recommended dose to cats and dogs infected with adult heartworms and no undesirable effects were observed. The veterinary medicinal product was also administered at 3 times the recommended dose to breeding male and female cats and dogs, including pregnant and lactating females nursing their litters and at 5 times the recommended dose to ivermectin-sensitive Collies, and no undesirable effects were observed.

**7. Adverse events**

Cats:

Rare (1 to 10 animals / 10 000 animals treated):
application site alopecia <sup>1,2</sup> , application site hair changes <sup>3</sup>
Very rare (<1 animal / 10 000 animals treated, including isolated reports):
application site irritation <sup>1,4</sup> , neurological signs (including seizures) <sup>5</sup>

Dogs:

Rare (1 to 10 animals / 10 000 animals treated):
application site hair changes <sup>3</sup>
Very rare (<1 animal / 10 000 animals treated, including isolated reports):
neurological signs (including seizures) <sup>5</sup>

<sup>1</sup>Normally self-resolving, but symptomatic therapy may be applicable in some circumstances.

<sup>2</sup>Mild and transient.

<sup>3</sup>Local temporary clumping of the hair at the application site and/or an occasional appearance of a small quantity of a white powder which typically disappear within 24 hours of treatment administration and does not affect either the safety or efficacy of the veterinary medicinal product.

<sup>4</sup>Transient and focal.

<sup>5</sup>Reversible as with other macrocyclic lactones.

Reporting adverse events is important. It allows continuous safety monitoring of a product. 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 contact, in the first instance, your veterinarian. You can also report

any adverse events to the marketing authorisation holder or the local representative of the marketing authorisation holder using the contact details at the end of this leaflet, or via your national reporting system: {national system details}.

## 8. Dosage for each species, routes and method of administration

Spot-on use.

Apply to the skin at the base of the neck in front of the shoulder blades.

The veterinary medicinal product should be administered topically as a single application of a single-dose delivering a minimum of 6 mg/kg selamectin. When concurrent infestations or infections in the same animal are to be treated with the veterinary medicinal product, only one application of the recommended 6 mg/kg dose should be administered at any one time. The appropriate length of the treatment period for individual parasites is specified below.

Administer the veterinary medicinal product in accordance with the following table:

Cats (kg)	Pipette cap colour	mg of selamectin dispensed	Potency (mg/ml)	Administered volume (nominal pipette size, ml)
≤ 2.5	Rose	15	60	0.25
2.6–7.5	Blue	45	60	0.75
7.6–10.0	Taupe	60	60	1.0
> 10		Appropriate combination of pipettes	60	Appropriate combination of pipettes

Dogs (kg)	Pipette cap colour	mg of selamectin dispensed	Potency (mg/ml)	Administered volume (nominal pipette size, ml)
≤ 2.5	Rose	15	60	0.25
2.6–5.0	Violet	30	120	0.25
5.1–10.0	Brown	60	120	0.5
10.1–20.0	Red	120	120	1.0
20.1–40.0	Green	240	120	2.0
40.1–60.0	Plum	360	120	3.0
> 60		Appropriate combination of pipettes	60/120	Appropriate combination of pipettes

### Flea treatment and prevention (cats and dogs)

#### Animals older than six weeks of age:

Following administration of the veterinary medicinal product to the animal, adult fleas and larvae are killed and no viable eggs are produced. This stops flea reproduction and may aid in the control of existing environmental flea infestations in areas to which the animal has access.

For the prevention of flea infestations, the veterinary medicinal product should be administered to the animal at monthly intervals throughout the flea season, starting one month before fleas become active. This ensures that fleas infesting the animal are killed, no viable flea eggs are produced by these fleas, and larvae (found only in the environment) are also killed. This breaks the flea life cycle and prevents flea infestations.

For use as part of a treatment strategy for flea allergy dermatitis the veterinary medicinal product should be administered at monthly intervals.

### **Treatment of pregnant and lactating animals to prevent flea infestations in puppies and kittens:**

Through a reduction in the flea population, monthly treatment of pregnant and lactating animals will aid prevention of flea infestation in the litter up to seven weeks of age.

### **Prevention of heartworm disease (cats and dogs)**

The veterinary medicinal product may be administered year-round or at least within one month of the animal's first exposure to mosquitoes and monthly thereafter until the end of the mosquito season. The final dose must be given within one month after the last exposure to mosquitoes. If a dose is missed and a monthly interval between dosing is exceeded then immediate administration of the veterinary medicinal product and resumption of monthly dosing will minimise the opportunity for the development of adult heartworms. When replacing another heartworm preventive product in a heartworm disease prevention programme, the first dose of the veterinary medicinal product must be given within a month of the last dose of the former medication.

### **Treatment of roundworm infections (cats and dogs)**

A single dose of the veterinary medicinal product should be administered.

### **Treatment of biting lice (cats and dogs)**

A single dose of the veterinary medicinal product should be administered.

### **Treatment of ear mites (cats)**

A single dose of the veterinary medicinal product should be administered.

### **Treatment of ear mites (dogs)**

A single dose of the veterinary medicinal product should be administered. Loose debris should be gently removed from the external ear canal at each treatment. A further veterinary examination 30 days after treatment is recommended as some animals may require a second treatment.

### **Treatment of hookworm infections (cats)**

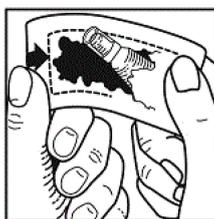
A single dose of the veterinary medicinal product should be administered.

### **Treatment of sarcoptic mange (dogs)**

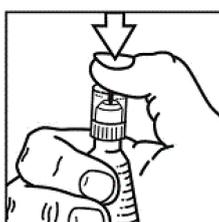
For complete elimination of the mites, a single dose of the veterinary medicinal product should be administered for two consecutive months.

## **9. Advice on correct administration**

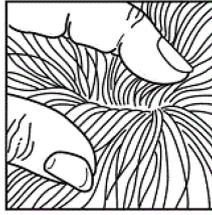
Remove the pipette from its protective package



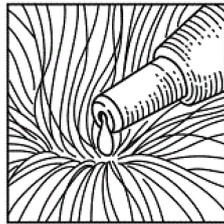
Holding the pipette upright, firmly depress the cap to puncture the applicator seal, then remove the cap.



Part the hair at the base of your animal's neck in front of the shoulder blades to expose a small area of skin.



Apply the tip of the pipette directly to the skin without massaging. Squeeze the pipette firmly to empty the contents in one spot. Avoid contact between the veterinary medicinal product and your fingers.



Do not apply when the hair coat is wet. However, shampooing or soaking the animal 2 or more hours after treatment will not reduce the efficacy of the veterinary medicinal product.

#### **10. Withdrawal periods**

Not applicable.

#### **11. Special storage precautions**

Keep out of the sight and reach of children.

Do not store above 30 °C. Store in the original package in a dry place.

Do not use this veterinary medicinal product after the expiry date which is stated on the carton and the label after Exp. The expiry date refers to the last day of that month.

#### **12. Special precautions for disposal**

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

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 applicable national collection systems. These measures should help to protect the environment.

Ask your veterinary surgeon or pharmacist how to dispose of medicines no longer required.

#### **13. Classification of veterinary medicinal products**

Veterinary medicinal product subject to prescription.

#### **14. Marketing authorisation numbers and pack sizes**

EU/2/99/014/001-016.

The veterinary medicinal product is available in packs of three pipettes (for all pipette sizes), six pipettes (for all pipette sizes except 15 mg selamectin), or fifteen pipettes (for 15 mg selamectin pipette size only).

Not all pack sizes may be marketed.

#### **15. Date on which the package leaflet was last revised**

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

#### **16. Contact details**

Marketing authorisation holder and manufacturer responsible for batch release:

Zoetis Belgium  
Rue Laid Burniat 1  
1348 Louvain-La-Neuve  
Belgium

Local representatives and contact details to report suspected adverse reactions:

##### **België/Belgique/Belgien**

Zoetis Belgium  
Mercuriusstraat 20  
BE-1930 Zaventem  
Tél/Tel: +32 (0) 800 99 189

##### **Lietuva**

Zoetis Belgium  
Mercuriusstraat 20  
1930 Zaventem  
Belgija  
Tel: +370 610 05088

##### **Република България**

Zoetis Belgium  
Rue Laid Burniat 1  
1348 Louvain-La-Neuve  
Белгия  
Тел: +359 888 51 30 30

##### **Luxembourg/Luxemburg**

Zoetis Belgium  
Mercuriusstraat 20  
1930 Zaventem  
Belsch  
Tél/Tel: +32 (2) 746 80 11

##### **Česká republika**

Zoetis Česká republika, s.r.o.  
náměstí 14. října 642/17  
CZ 150 00 Praha  
Tel: +420 257 101 111

##### **Magyarország**

Zoetis Hungary Kft.  
Csörsz u. 41.  
HU-1124 Budapest  
Tel.: +36 1 224 5200

##### **Danmark**

Zoetis Animal Health ApS  
Øster Alle 48  
DK-2100 København  
Tlf: +45 70 20 73 05  
[adr.scandinavia@zoetis.com](mailto:adr.scandinavia@zoetis.com)

##### **Malta**

Agrimed Limited  
Mdina Road, Zebbug ZBG 9016,  
MT  
Tel: +356 21 465 797

##### **Deutschland**

Zoetis Deutschland GmbH  
Schellingstr. 1  
DE-10785 Berlin  
Tel: +49 30 2020 0049  
[tierarzneimittelsicherheit@zoetis.com](mailto:tierarzneimittelsicherheit@zoetis.com)

##### **Nederland**

Zoetis B.V.  
Rivium Westlaan 74  
NL-2909 LD Capelle aan den IJssel  
Tel: +31 (0)10 714 0900

**Eesti**

Zoetis Belgium  
Mercuriusstraat 20  
1930 Zaventem  
Belgia  
Tel: +370 610 05088

**Κύπρος**

Zoetis Hellas S.A.  
Φραγκοκκλησιάς 7, Μαρούσι  
15125, Αττική  
Ελλάδα  
Τηλ: +30 210 6791900

**España**

Zoetis Spain, S.L.  
Parque Empresarial Vía Norte Edificio nº1,  
c/ Quintanavides nº13  
ES-28050 Madrid  
Tel: +34 91 4191900

**France**

Zoetis France  
10 rue Raymond David  
FR-92240 Malakoff  
Tél: +33 (0)800 73 00 65

**Hrvatska**

Zoetis B.V.  
Podružnica Zagreb za promidžbu  
Petra Hektorovića 2  
HR-10000 Zagreb  
Tel: +385 1 6441 462

**Ireland**

Zoetis Belgium S.A. (Irish Branch)  
2nd Floor, Building 10,  
Cherrywood Business Park,  
Loughlinstown,  
Co. Dublin,  
IE – Dublin D18 T3Y1  
Tel: +353 (0) 1 256 9800

**Ísland**

Zoetis Animal Health ApS  
Øster Alle 48  
DK-2100 København  
Danmörku  
Sími: +45 70 20 73 05  
[adr.scandinavia@zoetis.com](mailto:adr.scandinavia@zoetis.com)

**Norge**

Zoetis Animal Health ApS  
Øster Alle 48  
DK-2100 København  
Danmark  
Tlf: +47 23 29 86 80  
[adr.scandinavia@zoetis.com](mailto:adr.scandinavia@zoetis.com)

**Österreich**

Zoetis Österreich GmbH  
Floridsdorfer Hauptstr. 1  
AT-1210 Wien  
Tel: +43 (0)1 2701100 100

**Polska**

Zoetis Polska Sp. z o.o.  
ul. Postępu 17B  
PL - 02-676 Warszawa  
Tel.: +48 22 2234800

**Portugal**

Zoetis Portugal Lda.  
Lagoas Park, Edifício 10  
PT-2740-271 Porto Salvo  
Tel: +351 21 042 72 00

**România**

Zoetis România S.R.L.  
Expo Business Park, 54A Aviator Popișteanu,  
Clădirea 2, Etaj 1-3, Sector 1,  
București, 012095 - RO  
Tel: +40785019479

**Slovenija**

Zoetis B.V.  
Podružnica Zagreb za promidžbu  
Petra Hektorovića 2,  
10000 Zagreb,  
Hrvaška  
Tel: +385 1 6441 462

**Slovenská republika**

Zoetis Česká republika, s.r.o.  
náměstí 14. října 642/17  
150 00 Praha  
Česká republika  
Tel: +420 257 101 111

**Italia**

Zoetis Italia S.r.l.  
Via Andrea Doria 41M,  
IT-00192 Roma  
Tel: +39 06 3366 8111

**Ελλάδα**

Zoetis Hellas S.A.  
Φραγκοκκλησιάς 7, Μαρούσι  
EL-15125 Αττική  
Τηλ: +30 210 6791900

**Latvija**

Zoetis Belgium  
Mercuriusstraat 20  
1930 Zaventem  
Belgija  
Tel: +370 610 05088

**Suomi/Finland**

Zoetis Finland Oy  
Bulevardi 21 / SPACES  
FI-00180 Helsinki/Helsingfors  
Suomi/Finland  
Puh/Tel: +358 10 336 7000  
[laaketurva@zoetis.com](mailto:laaketurva@zoetis.com)

**Sverige**

Zoetis Animal Health ApS  
Øster Alle 48  
DK-2100 Köpenhamn  
Danmark  
Tel: +46 (0) 76 760 0677  
[adr.scandinavia@zoetis.com](mailto:adr.scandinavia@zoetis.com)

**United Kingdom (Northern Ireland)**

Zoetis Belgium S.A. (Irish Branch)  
2nd Floor, Building 10,  
Cherrywood Business Park,  
Loughlinstown,  
Co. Dublin,  
IE – Dublin D18 T3Y1  
Tel: +353 (0) 1 256 9800