

1.3.1	Flubendazole
SPC, Labeling and Package Leaflet	Common

## SUMMARY OF PRODUCT CHARACTERISTICS

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## 1. NAME OF THE VETERINARY MEDICINAL PRODUCT

FLIMABEND 100 mg/g suspension for use in drinking water for chickens and pigs

## 2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each g contains:

### Active substance:

Flubendazole 100 mg

### Excipients:

Qualitative composition of excipients and other constituents	Quantitative composition if that information is essential for proper administration of the veterinary medicinal product
Methyl parahydroxybenzoate (E218)	2.0 mg
Sodium benzoate (E211)	5.0 mg
Disodium edetate	0.1 mg
Carmellose sodium	
Xanthan gum	
Citric acid monohydrate	
Carbomers	
Propylene glycol	
Water, purified	

White to brownish white suspension.

## 3. CLINICAL INFORMATION

### 3.1 Target species

Pigs (piglets, pigs for fattening, pregnant and lactating sows) and chickens (layer hens, chickens for reproduction, pullets, broilers).

### 3.2 Indications for use for each target species

In hens/chickens:

- Treatment of helminthiasis caused by *Ascaridia galli* (adult stages), *Heterakis gallinarum* (adult stages), *Capillaria* spp. (adult stages).

In pigs:

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- Treatment of helminthiasis caused by *Ascaris suum* (adult and intestinal larval stages) in piglets, pigs for fattening, pregnant and lactating sows.

### 3.3 Contraindications

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

### 3.4 Special warnings

In chickens, optimal results can only be achieved if strict rules of hygiene are respected in the maintenance of the cages.

In both species:

Care should be taken to avoid the following practices because they increase the risk of development of resistance and could ultimately result in ineffective therapy:

- Too frequent and repeated use of anthelmintics from the same class, over an extended period of time.
- Underdosing, which may be due to underestimation of body weight, misadministration of the veterinary medicinal product, or lack of calibration of the dosing device (if any).

Suspected clinical cases of resistance to anthelmintics should be further investigated using appropriate tests (e.g. Faecal Egg Count Reduction Test). Where the results of the test(s) strongly suggest resistance to a particular anthelmintic, an anthelmintic belonging to another pharmacological class and having a different mode of action should be used.

### 3.5 Special precautions for use

Special precautions for safe use in the target species

Not applicable.

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

Direct contact with veterinary medicinal product should be avoided.

Personal protective equipment consisting of protective gloves should be worn when handling the veterinary medicinal product. Wash hands after use.

People with known hypersensitivity to flubendazole should avoid contact with the veterinary medicinal product. In the event of eye contact, rinse thoroughly with water. In case of appearance and persistence of conjunctival redness, seek medical advice and show the package leaflet to the physician.

Special precautions for the protection of the environment:

Not applicable.

### 3.6 Adverse events

Pigs:

None known.

Chickens:

Undetermined frequency (cannot be estimated from the available data):	Development disorders of the feathers
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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 rabbits and rats have not produced any evidence of embryotoxicity, teratogenicity at therapeutic doses. High dosages gave equivocal results. In laboratory studies in rats, there were no effects on pups during lactation. The safety of the product has been demonstrated in pregnant and lactating sows. Can be used in pregnant and lactating sows.

#### Laying birds:

The safety of the product has been demonstrated in laying hens. Can be used in laying hens.

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

None known.

### 3.9 Administration routes and dosage

Oral use.

Hens/chickens:

1.43 mg flubendazole (= 14.3 mg veterinary medicinal product) per kg body weight daily during 7 days i.e. 1 g of the veterinary medicinal product per 70 kg body weight daily for 7 days.

Pigs:

a) Treatment of helminthiasis caused by *Ascaris suum* (adult stages and intestinal larval stages):  
1 mg flubendazole (= 10 mg veterinary medicinal product) per kg body weight daily during 5 days, i.e. 1 g of the veterinary medicinal product per 100 kg body weight daily for 5 days;

b) Treatment of helminthiasis caused by *Ascaris suum* (adult stages):  
2.5 mg flubendazole (= 25 mg veterinary medicinal product) per kg body weight daily during 2 days, i.e. 2.5 g of the veterinary medicinal product per 100 kg body weight daily for 2 days.

Pigs should be grouped according to their bodyweight and dosed accordingly, in order to prevent under or overdosing.

Based on the recommended dose and the number and weight of animals to be treated, the exact daily concentration of the veterinary medicinal product should be calculated according to the following formula:

$$\frac{\text{mg veterinary medicinal product/kg body weight/day} \times \text{average body weight (kg) of animals to be treated}}{\text{average quantity of drinking water (l/animal) consumed in 4 h}} = \text{mg veterinary medicinal product per litre of drinking water}$$

This will result in a concentration of flubendazole between 20 and 200 mg per litre.

Method of administration:

Administration in drinking water

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1) The required quantity of the veterinary medicinal product is in function of the estimated body weight of the total group animals (see table below for guidance).

Hens/chickens, 7 days of treatment

Total weight of chickens	Amount of medication to be used (g/ day)	Total amount of medication used (g/ 7 days)
1400 kg	20 g	7 x 20 g
3500 kg	50 g	7 x 50 g
7000 kg	100 g	7 x 100 g
52500 kg	750 g	7 x 750 g

Pigs, 5 days of treatment

Total weight of pigs	Amount of medication to be used (g/ day)	Total amount of medication used (g/ 5 days)
2000 kg	20 g	5 x 20 g
5000 kg	50 g	5 x 50 g
10000 kg	100 g	5 x 100 g
75000 kg	750 g	5 x 750 g

Pigs, 2 days of treatment

Total weight of pigs	Amount of medication to be used (g/ day)	Total amount of medication used (g/ 2 days)
800 kg	20 g	2 x 20 g
2000 kg	50 g	2 x 50 g
4000 kg	100 g	2 x 100 g
30000 kg	750 g	2 x 750 g

2) Each day a predilution is prepared containing the daily required dose of the veterinary medicinal product admixed in 10 to 100 times its weight in water depending on the distribution system. For example: for 500 g of the veterinary medicinal product, add 5 litres to 50 litres of water.

3) If less than entire package (a sachet or a container) is required, the required dose should be measured by suitably calibrated weighing equipment.

4) If the entire sachet is used, squeeze it gently before use and then empty the contents into the predilution recipient.

5) Stir the predilution vigorously with a manual mixer (whisk) for 2 minutes to obtain a white milky homogenous mixture.

6) This predilution must be distributed via the general water supply system:

Tanks: add the predilution to the quantity of water usually consumed by the animals over a period of up to 4 hours.

Dosing pumps: adjust the flow rate of the pump to distribute the predilution over a period of up to 4 hours.

In order to ensure administration of the correct dose, a substantial water flow must be present in the drinking water system. Administration of the veterinary medicinal product over a period of up to 4 hours on each treatment day, at times when water consumption is likely to be highest prevents precipitation of

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flubendazole in the water delivery system and allows washing out of the drinking water system within a 24 hour period after the period of drug administration is finished.

- 7) Prior to and after the period of treatment make sure the water distribution system is cleaned.
- 8) Make sure that all animals in the group receive enough drinking water with the veterinary medicinal product. Withhold drinking water for 2 hours before treatment to stimulate thirst.
- 9) The corresponding dose must always be distributed when the water consumption of the animals is highest.

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

Flubendazole has a low acute oral toxicity.

In hens, no undesirable effects have been observed after administration of up to 15 mg/kg b.w./day flubendazole.

In pigs, no adverse effects have been observed after administration of up to 50 mg/kg b.w./day flubendazole.

In situations where accidental overdose is suspected of having occurred, there is no antidote and treatment should be symptomatic.

### **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**

Pigs (meat and offal):

- dose 1 mg/kg body weight for 5 days: 3 days
- dose 2.5 mg/kg body weight for 2 days: 4 days

Chickens (meat and offal): 2 days

Eggs: zero days.

## **4. PHARMACOLOGICAL INFORMATION**

### **4.1 ATCvet code: QP52AC12**

### **4.2 Pharmacodynamics**

Flubendazole is a benzimidazole anthelmintic. It acts by binding to tubulin of the parasite, the dimeric subunit protein of the microtubules. It inhibits micro tubular assembly in absorptive cells: i.e. in intestinal cells of nematodes or the tegumental cells of cestodes. This is shown by disappearance of cytoplasmic microtubules, accumulation of secretory granules in the cytoplasm due to a block in their transport, leading to an impaired coating of the cellular membrane and a decreased digestion and absorption of nutrients. Irreversible lytic degeneration of the cells, due to the accumulation of secretory substances (hydrolytic and proteolytic enzymes) results in the death of the parasite. These changes are relatively fast and are primarily seen in those organelles directly involved in the secretory and absorptive functions of the cells. In contrast the changes are not seen in cells of the host. Another tubulin-related effect is the strong inhibition of egg hatch by inhibition of microtubule-depended processes in the developing worm egg (cell division).

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### 4.3 Pharmacokinetics

Flubendazole is poorly soluble in aqueous systems, such as the gastrointestinal tract, which results in a low distribution rate and a low absorption. This is reflected by the high faecal excretion of unchanged parent drug. The small fraction absorbed is extensively metabolised by first-pass metabolism in the liver, involving carbamate hydrolysis and ketone reduction. The biotransformation products are conjugated to glucuronides or sulphate conjugates and excreted with the bile and the urine. The excretion with urine is relatively low and consists almost exclusively of metabolites with only small amounts of unchanged compound. In pigs and chickens, the half-life of flubendazole and its metabolites in plasma is 12 hours to 2 days.

## 5. PHARMACEUTICAL PARTICULARS

### 5.1 Major incompatibilities

In the absence of compatibility studies, this veterinary medicinal product must not be mixed with other veterinary medicinal products

### 5.2 Shelf life

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

Shelf life after first opening the container: 6 months.

Shelf life after first opening the sachet: Use immediately. Any suspension remaining in the sachet after first opening should be discarded.

Shelf life after dilution according to directions: 24 hours.

### 5.3 Special precautions for storage

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

### 5.4 Nature and composition of immediate packaging

Cardboard box containing 2 sachets (sachet PE/PET/aluminium/PET) of 20 g suspension for use in drinking water.

Cardboard box containing 24 sachets (sachet PE/PET/aluminium/PET) of 20 g suspension for use in drinking water.

Cardboard box containing 2 sachets (sachet PE/PET/aluminium/PET) of 50 g suspension for use in drinking water.

Cardboard box containing 24 sachets (sachet PE/PET/aluminium/PET) of 50 g suspension for use in drinking water.

Cardboard box containing 1 sachet (sachet PE/PET/aluminium/PET) of 100 g suspension for use in drinking water.

Cardboard box containing 5 sachets (sachet PE/PET/aluminium/PET) of 100 g suspension for use in drinking water.

Cardboard box containing 25 sachets (sachet PE/PET/aluminium/PET) of 100 g suspension for use in drinking water.

Cardboard box containing 4 containers (PP) with a closure (LDPE) of 750 g suspension for use in drinking water.

Cardboard box containing 6 containers (PP) with a closure (LDPE) of 750 g suspension for use in drinking water.

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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.

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**

*To be completed nationally.*

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

### **8. DATE OF FIRST AUTHORISATION**

Date of first authorisation:

### **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>).



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## **LABELLING AND PACKAGE LEAFLET**

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## **A. LABELLING**

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## **PARTICULARS TO APPEAR ON THE OUTER PACKAGE**

**BOX containing sachets (2 x 20 g, 24 x 20 g, 2 x 50 g, 24 x 50 g, 1 x 100 g, 5 x 100 g, 25 x 100 g)**

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

FLIMABEND 100 mg/g suspension for use in drinking water

### **2. STATEMENT OF ACTIVE SUBSTANCES**

Each g contains 100 mg flubendazole

### **3. PACKAGE SIZE**

2 x 20 g  
24 x 20 g  
2 x 50 g  
24 x 50 g  
1 x 100 g  
5 x 100 g  
25 x 100 g

### **4. TARGET SPECIES**

Pigs (piglets, pigs for fattening, pregnant and lactating sows) and chickens (layer hens, chickens for reproduction, pullets, broilers).



### **5. INDICATIONS**

### **6. ROUTES OF ADMINISTRATION**

In drinking water use.

### **7. WITHDRAWAL PERIODS**

Withdrawal period:

Pigs (meat and offal):

- dose 1 mg/kg body weight for 5 days: 3 days
- dose 2.5 mg/kg body weight for 2 days: 4 days

Chickens (meat and offal): 2 days

Eggs: zero days.

### **8. EXPIRY DATE**

Exp.

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Shelf life after first opening the sachet: Use immediately. Any suspension remaining in the sachet after first opening should be discarded.

Shelf life after dilution according to directions: 24 hours.

## **9. SPECIAL STORAGE PRECAUTIONS**

## **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**

*To be completed nationally.*

## **14. MARKETING AUTHORISATION NUMBERS**

## **15. BATCH NUMBER**

Lot

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## **PARTICULARS TO APPEAR ON THE OUTER PACKAGE**

**LABEL for box containing containers (4 x 750 g, 6 x 750 g)**

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

FLIMABEND 100 mg/g suspension for use in drinking water

### **2. STATEMENT OF ACTIVE SUBSTANCES**

Each g contains 100 mg flubendazole

### **3. PACKAGE SIZE**

4 x 750 g

6 x 750 g

### **4. TARGET SPECIES**

Pigs (piglets, pigs for fattening, pregnant and lactating sows) and chickens (layer hens, chickens for reproduction, pullets, broilers).



### **5. INDICATIONS**

### **6. ROUTES OF ADMINISTRATION**

In drinking water use.

### **7. WITHDRAWAL PERIODS**

Withdrawal period:

Pigs (meat and offal):

- dose 1 mg/kg body weight for 5 days: 3 days
- dose 2.5 mg/kg body weight for 2 days: 4 days

Chickens (meat and offal): 2 days

Eggs: zero days.

### **8. EXPIRY DATE**

Exp.

Shelf life after first opening the container: 6 months.

Shelf life after dilution according to directions: 24 hours.

### **9. SPECIAL STORAGE PRECAUTIONS**

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<b>10. THE WORDS “READ THE PACKAGE LEAFLET BEFORE USE”</b>
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Read the package leaflet before use.

<b>11. THE WORDS “FOR ANIMAL TREATMENT ONLY”</b>
--

For animal treatment only.

<b>12. THE WORDS “KEEP OUT OF THE SIGHT AND REACH OF CHILDREN”</b>
--

Keep out of the sight and reach of children.

<b>13. NAME OF THE MARKETING AUTHORISATION HOLDER</b>
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*To be completed nationally.*

<b>14. MARKETING AUTHORISATION NUMBERS</b>
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<b>15. BATCH NUMBER</b>
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## **PARTICULARS TO APPEAR ON THE IMMEDIATE PACKAGE**

**Label – bag (20 g, 50 g, 100 g)**

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

FLIMABEND 100 mg/g suspension for use in drinking water

### **2. STATEMENT OF ACTIVE SUBSTANCES**

Each g contains 100 mg flubendazole

### **3. TARGET SPECIES**

Pigs (piglets, pigs for fattening, pregnant and lactating sows) and chickens (layer hens, chickens for reproduction, pullets, broilers).



### **4. ROUTES OF ADMINISTRATION**

Read the package leaflet before use.

In drinking water use.

### **5. WITHDRAWAL PERIODS**

Withdrawal period:

Pigs (meat and offal):

- dose 1 mg/kg body weight for 5 days: 3 days
- dose 2.5 mg/kg body weight for 2 days: 4 days

Chickens (meat and offal): 2 days

Eggs: zero days.

### **6. EXPIRY DATE**

Exp.

Shelf life after first opening the sachet: Use immediately. Any suspension remaining in the sachet after first opening should be discarded.

Shelf life after dilution according to directions: 24 hours.

Information about the batch number and date of expiration are shown on the sealed edge of the bag.

### **7. SPECIAL STORAGE PRECAUTIONS**

### **8. NAME OF THE MARKETING AUTHORISATION HOLDER**

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Lot



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## **PARTICULARS TO APPEAR ON THE IMMEDIATE PACKAGE**

**Label – container (750 g)**

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

FLIMABEND 100 mg/g suspension for use in drinking water

### **2. STATEMENT OF ACTIVE SUBSTANCES**

Each g contains 100 mg flubendazole

### **3. TARGET SPECIES**

Pigs (piglets, pigs for fattening, pregnant and lactating sows) and chickens (layer hens, chickens for reproduction, pullets, broilers).



### **4. ROUTES OF ADMINISTRATION**

Read the package leaflet before use.

In drinking water use.

### **5. WITHDRAWAL PERIODS**

Withdrawal period:

Pigs (meat and offal):

- dose 1 mg/kg body weight for 5 days: 3 days
- dose 2.5 mg/kg body weight for 2 days: 4 days

Chickens (meat and offal): 2 days

Eggs: zero days.

### **6. EXPIRY DATE**

Exp.

Shelf life after first opening the container: 6 months.

Shelf life after dilution according to directions: 24 hours.

### **7. SPECIAL STORAGE PRECAUTIONS**

### **8. NAME OF THE MARKETING AUTHORISATION HOLDER**

*To be completed nationally.*

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## **B. PACKAGE LEAFLET**

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## PACKAGE LEAFLET

### 1. Name of the veterinary medicinal product

FLIMABEND 100 mg/g suspension for use in drinking water for chickens and pigs

### 2. Composition

Each g contains 100 mg of flubendazole with 2 mg of methyl parahydroxybenzoate (E218), 5 mg of sodium benzoate (E211) and 0.1 mg of disodium edetate.

White to brownish white suspension.

### 3. Target species

Pigs (piglets, pigs for fattening, pregnant and lactating sows) and chickens (layer hens, chickens for reproduction, pullets, broilers).



### 4 . Indications for use

In hens/chickens:

- Treatment of helminthiasis caused by *Ascaridia galli* (adult stages), *Heterakis gallinarum* (adult stages), *Capillaria* spp. (adult stages).

In pigs:

- Treatment of helminthiasis caused by *Ascaris suum* (adult and intestinal larval stages) in piglets, pigs for fattening, pregnant and lactating sows.

### 5. Contraindications

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

### 6. Special warnings

#### Special warnings:

In chickens, optimal results can only be achieved if strict rules of hygiene are respected in the maintenance of the cages.

In both species:

Care should be taken to avoid the following practices because they increase the risk of development of resistance and could ultimately result in ineffective therapy:

- Too frequent and repeated use of anthelmintics from the same class, over an extended period of time.
- Underdosing, which may be due to underestimation of body weight, misadministration of the veterinary medicinal product, or lack of calibration of the dosing device (if any).

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Suspected clinical cases of resistance to anthelmintics should be further investigated using appropriate tests (e.g. Faecal Egg Count Reduction Test). Where the results of the test(s) strongly suggest resistance to a particular anthelmintic, an anthelmintic belonging to another pharmacological class and having a different mode of action should be used.

Special precautions to be taken by the person administering the veterinary medicinal product to animals:  
Direct contact with veterinary medicinal product should be avoided. Personal protective equipment consisting of protective gloves should be worn when handling the veterinary medicinal product. Wash hands after use.

People with known hypersensitivity to flubendazole should avoid contact with the veterinary medicinal product. In the event of eye contact, rinse thoroughly with water. In case of appearance and persistence of conjunctival redness, seek medical advice and show the package leaflet to the physician.

#### Pregnancy and lactation:

Laboratory studies in rabbits and rats have not produced any evidence of embryotoxicity, teratogenicity at therapeutic doses. High dosages gave equivocal results. In laboratory studies in rats, there were no effects on pups during lactation. The safety of the product has been demonstrated in pregnant and lactating sows. Can be used in pregnant and lactating sows.

#### Laying birds:

The safety of the product has been demonstrated in laying hens. Can be used in laying hens.

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

None known.

#### Overdose:

Flubendazole has a low acute oral toxicity.

In hens, no undesirable effects have been observed after administration of up to 15 mg/kg b.w./day flubendazole.

In pigs, no adverse effects have been observed after administration of up to 50 mg/kg b.w./day flubendazole.

In situations where accidental overdose is suspected of having occurred, there is no antidote and treatment should be symptomatic.

#### Major incompatibilities:

In the absence of compatibility studies, this veterinary medicinal product must not be mixed with other veterinary medicinal products.

## **7. Adverse events**

#### Pigs:

None known.

#### Chickens:

Undetermined frequency (cannot be estimated from the available data):	Development disorders of the feathers
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Reporting adverse events is important. It allows continuous safety monitoring of a veterinary medicinal 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.

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You can also report any adverse events to the marketing authorisation holder or the local representative of the 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

Oral use.

Hens/chickens:

1.43 mg flubendazole (= 14.3 mg veterinary medicinal product) per kg body weight daily during 7 days i.e. 1 g of the veterinary medicinal product per 70 kg body weight daily for 7 days.

Pigs:

- a) Treatment of helminthiasis caused by *Ascaris suum* (adult stages and intestinal larval stages):  
1 mg flubendazole (= 10 mg veterinary medicinal product) per kg body weight daily during 5 days, i.e. 1 g of the veterinary medicinal product per 100 kg body weight daily for 5 days;
- b) Treatment of helminthiasis caused by *Ascaris suum* (adult stages):  
2.5 mg flubendazole (= 25 mg veterinary medicinal product) per kg body weight daily during 2 days, i.e. 2.5 g of the veterinary medicinal product per 100 kg body weight daily for 2 days.

Pigs should be grouped according to their bodyweight and dosed accordingly, in order to prevent under or overdosing.

Based on the recommended dose and the number and weight of animals to be treated, the exact daily concentration of the veterinary medicinal product should be calculated according to the following formula:

$$\frac{\text{mg veterinary medicinal product/kg body weight/day} \times \text{average body weight (kg) of animals to be treated}}{\text{average quantity of drinking water (l/animal) consumed in 4 h}} = \text{mg veterinary medicinal product per litre of drinking water}$$

This will result in a concentration of flubendazole between 20 and 200 mg per litre.

## 9. Advice on correct administration

Administration in drinking water

- 1) The required quantity of the veterinary medicinal product is in function of the estimated body weight of the total group animals (see table below for guidance).

Hens/chickens, 7 days of treatment

Total weight of chickens	Amount of medication to be used (g/ day)	Total amount of medication used (g/ 7 days)
1400 kg	20 g	7 x 20 g
3500 kg	50 g	7 x 50 g
7000 kg	100 g	7 x 100 g
52500 kg	750 g	7 x 750 g

Pigs, 5 days of treatment

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Total weight of pigs	Amount of medication to be used (g/ day)	Total amount of medication used (g/ 5 days)
2000 kg	20 g	5 x 20 g
5000 kg	50 g	5 x 50 g
10000 kg	100 g	5 x 100 g
75000 kg	750 g	5 x 750 g

Pigs, 2 days of treatment

Total weight of pigs	Amount of medication to be used (g/ day)	Total amount of medication used (g/ 2 days)
800 kg	20 g	2 x 20 g
2000 kg	50 g	2 x 50 g
4000 kg	100 g	2 x 100 g
30000 kg	750 g	2 x 750 g

2) Each day a predilution is prepared containing the daily required dose of the veterinary medicinal product admixed in 10 to 100 times its weight in water depending on the distribution system. For example: for 500 g of the veterinary medicinal product, add 5 litres to 50 litres of water.

3) If less than entire package (a sachet or a container) is required, the required dose should be measured by suitably calibrated weighing equipment.

4) If the entire sachet is used, squeeze it gently before use and then empty the contents into the predilution recipient.

5) Stir the predilution vigorously with a manual mixer (whisk) for 2 minutes to obtain a white milky homogenous mixture.

6) This predilution must be distributed via the general water supply system:

Tanks: add the predilution to the quantity of water usually consumed by the animals over a period of up to 4 hours.

Dosing pumps: adjust the flow rate of the pump to distribute the predilution over a period of up to 4 hours.

In order to ensure administration of the correct dose, a substantial water flow must be present in the drinking water system. Administration of the veterinary medicinal product over a period of up to 4 hours on each treatment day, at times when water consumption is likely to be highest, prevents precipitation of flubendazole in the water delivery system and allows washing out of the drinking water system within a 24 hour period after the period of drug administration is finished.

7) Prior to and after the period of treatment make sure the water distribution system is cleaned.

8) Make sure that all animals in the group receive enough drinking water with the veterinary medicinal product. Withhold drinking water for 2 hours before treatment to stimulate thirst.

9) The corresponding dose must always be distributed when the water consumption of the animals is highest.

## 10. Withdrawal periods

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Pigs (meat and offal):

- dose 1 mg/kg body weight for 5 days: 3 days
- dose 2.5 mg/kg body weight for 2 days: 4 days

Chickens (meat and offal): 2 days

Eggs: zero days

## 11. Special storage precautions

Keep out of the sight and reach of children.

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

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

Shelf life after first opening the container: 6 months.

Shelf life after first opening the sachet: Use immediately. Any suspension remaining in the sachet after first opening should be discarded.

Shelf life after dilution according to directions: 24 hours.

## 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

Cardboard box containing 2 sachets (sachet PE/PET/aluminium/PET) of 20 g suspension for use in drinking water.

Cardboard box containing 24 sachets (sachet PE/PET/aluminium/PET) of 20 g suspension for use in drinking water.

Cardboard box containing 2 sachets (sachet PE/PET/aluminium/PET) of 50 g suspension for use in drinking water.

Cardboard box containing 24 sachets (sachet PE/PET/aluminium/PET) of 50 g suspension for use in drinking water.

Cardboard box containing 1 sachet (sachet PE/PET/aluminium/PET) of 100 g suspension for use in drinking water.

Cardboard box containing 5 sachets (sachet PE/PET/aluminium/PET) of 100 g suspension for use in drinking water.

Cardboard box containing 25 sachets (sachet PE/PET/aluminium/PET) of 100 g suspension for use in drinking water.



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Cardboard box containing 4 containers (PP) with a closure (LDPE) of 750 g suspension for use in drinking water.

Cardboard box containing 6 containers (PP) with a closure (LDPE) of 750 g suspension for use in drinking water.

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 contact details to report suspected adverse reactions:

*To be completed nationally.*

*Telephone number, if applicable*

Manufacturer responsible for batch release:

KRKA d.d., Novo mesto, Šmarješka cesta 6, 8501 Novo mesto, Slovenia

TAD Pharma GmbH, Heinz-Lohmann-Straße 5, 27472 Cuxhaven, Germany

Local representatives and contact details to report suspected adverse reactions:

For any information about this veterinary medicinal product, please contact the local representative of the marketing authorisation holder.

## <17. Other information>