

1. NAME OF THE VETERINARY MEDICINAL PRODUCT

Cydectin 0.5% w/v Pour-On for Cattle

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each ml contains :

Active Substance:

Moxidectin 5.00 mg

Excipients:

Qualitative composition of excipients and other constituents	Quantitative composition if that information is essential for proper administration of the veterinary medicinal product
Aromatic Solvent	
Myristal Propoxylate Propionic Ester	
Polybutene Polymer	
Propylene Glycol	
Butylated hydroxyanisole (E320)	0.10 mg
Tert butyl hydroquinone	0.03 mg
Citric Acid Monohydrate (E330)	
Fractionated coconut oil	

Pale yellow oily solution.

3. CLINICAL INFORMATION

3.1 Target species

Cattle.

3.2 Indications for use for each target species

Infections of cattle with parasites sensitive to moxidectin.

For the treatment of infections caused by:

- Adult and larval gastro-intestinal nematodes:
 - *Haemonchus placei*
 - *Ostertagia ostertagi* (including inhibited larvae)
 - *Trichostrongylus axei*
 - *Nematodirus helvetianus*
 - *Cooperia oncophora*
 - *Cooperia punctata* (adults)
 - *Oesophagostomum radiatum* (adults)
 - *Bunostomum phlebotomum* (adults)
- Adult respiratory tract nematode:

- *Dictyocaulus viviparus*
- Warbles (migrating larvae):
 - *Hypoderma bovis*
 - *Hypoderma lineatum*
- Lice:
 - *Linognathus vituli*
 - *Haematopinus eurysternus*
 - *Solenopotes capillatus*
 - *Bovicola bovis* (*Damalinia bovis*)
- Mange Mites:
 - *Sarcoptes scabiei*
 - *Psoroptes ovis*
 - *Chorioptes bovis*
- Horn Flies:
 - *Haematobia irritans*
- Cydectin 0.5% w/v Pour-On for Cattle has a persistent effect in preventing against reinfection by:
 - *Ostertagia ostertagi* for 5 weeks
 - *Dictyocaulus viviparus* for 6 weeks.

3.3 Contraindications

Not to be used in other species as severe adverse reactions, including fatalities in dogs, may occur. See Section 3.12.

3.4 Special warnings

None.

3.5 Special precautions for use

Special precautions for safe use in the target species:

For topical application only.

To avoid secondary reactions due to the death of *Hypoderma* larvae in the oesophagus or the spine, it is recommended to administer the veterinary medicinal product at the end of the period of fly activity and before the larvae reach their resting sites: consult the veterinarian to know the correct treatment period.

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

- Do not smoke, eat or drink while handling the veterinary medicinal product.
- Avoid direct contact with skin and eyes.
- Wash hands after use.
- Protective clothes and gloves are recommended when using the veterinary medicinal product.
- If splashed in the eye or on the skin, wash with plenty of clean, running water immediately.

Special precautions for the protection of the environment:

Moxidectin fulfils the criteria for a (very) persistent, bioaccumulative and toxic (PBT) substance; therefore, exposure of the environment to moxidectin must be limited to the extent possible. Treatments should be administered only when necessary and should be based on faecal egg counts or evaluation of the risk of infestation at the animal and/or herd level.

Like other macrocyclic lactones, moxidectin has the potential to adversely affect non-target organisms:

- Faeces containing moxidectin excreted onto pasture by treated animals may temporarily reduce the abundance of dung feeding organisms. Following treatment of cattle with the veterinary medicinal product, levels of moxidectin that are potentially toxic to dung fly species may be excreted over a period more than 2 weeks and may decrease dung fly abundance during that period. It has been established in laboratory tests that moxidectin may temporarily affect dung beetle reproduction; however, field studies indicate no-long term effects. Nevertheless, in case of repeated treatments with moxidectin (as with veterinary medicinal products of the same anthelmintic class) it is advisable not to treat animals every time on the same pasture to allow dung fauna populations to recover.
- Moxidectin is inherently toxic to aquatic organisms including fish. The veterinary medicinal product should be used only according to the label instructions. Based on the excretion profile of moxidectin when administered as the pour-on formulation, treated animals should not have access to watercourses during the first week after treatment.

3.6 Adverse events

Cattle

Very rare (<1 animal / 10,000 animals treated, including isolated reports):	Application site reaction Neurological signs (such as ataxia and trembling) Lethargy
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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 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, lactation and fertility:

The safety of moxidectin was established during pregnancy, lactation and in breeding bulls. See Section 3.12.

3.8 Interaction with other medicinal products and other forms of interaction

None known.

3.9 Administration routes and dosage

Pour-on use.

500 µg moxidectin/kg body weight (1 ml for 10 kg) as a single topical application.

To be administered along the midline of the back of the animal from the withers to the tailhead.

Apply to clean healthy skin.

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

No symptoms of overdose have been observed with the veterinary medicinal product given at ten times the recommended dose.

They are manifested as transient salivation, depression, drowsiness and ataxia. There is no specific antidote.

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

Meat and offal: 14 days.

Milk: 6 days (144 hours).

4. PHARMACOLOGICAL INFORMATION

4.1 ATCvet code:

QP54AB02

4.2 Pharmacodynamics

Moxidectin is a parasiticide active against a wide range of important internal and external parasites. It is a second generation macrocyclic lactone of the milbemycin family. Its principal mode of action is interference with the GABA (gamma amino butyric acid) receptors involved with neuromuscular transmission.

Moxidectin stimulates the release of GABA and increases its binding to the postsynaptic receptors. The net effect is to open the chloride channels on the postsynaptic junction to allow the inflow of chloride ions and induce an irreversible resting state. This results in flaccid paralysis and eventual death of parasites exposed to the drug.

4.3 Pharmacokinetics

Following pour-on application, the drug is distributed throughout the body tissues (except muscle) but due to its lipophilicity the concentrations in fat are 5-15 times those in other tissues.

Moxidectin undergoes partial biotransformation by hydroxylation in the body and the only significant route of excretion is the faeces, where the parent compound accounts for approximately 50%.

Environmental properties

Moxidectin fulfils the criteria for a (very) persistent, bioaccumulative and toxic (PBT) substance. In particular, in acute and chronic toxicity studies with algae, crustaceans and fish, moxidectin showed toxicity to these organisms, yielding the following endpoints:

Organism		EC50	NOEC
Algae	<i>S. capricornutum</i>	>86.9 µg/l	86.9 µg/l
Crustaceans (Water fleas)	<i>Daphnia magna</i> (acute)	0.0302 µg/l	0.011 µg/l
	<i>Daphnia magna</i> (reproduction)	0.0031 µg/l	0.010 µg/l
Fish	<i>O. mykiss</i>	0.160 µg/l	Not determined
	<i>L. macrochirus</i>	0.620 µg/l	0.52 µg/l

	<i>P. promelas</i> (early life stages)	Not applicable	0.0032 µg/l
	<i>Cyprinus carpio</i>	0.11 µg/l	Not determined

EC₅₀: the concentration which results in 50% of the test species individuals being adversely affected, i.e. both mortality and sub-lethal effects.

NOEC: the concentration in the study at which no effects are observed.

This implies that when allowing moxidectin to enter water bodies, this may have a severe and lasting impact on aquatic life. To mitigate this risk, all precautions for use and disposal must be adhered to.

5. PHARMACEUTICAL PARTICULARS

5.1 Major incompatibilities

Not to be mixed with other veterinary medicinal products before administration.

5.2 Shelf life

Shelf life of the veterinary medicinal product as packaged for sale: 24 months.

Shelf life after first opening the immediate packaging: 6 months.

5.3 Special precautions for storage

Keep the container in the outer carton to protect from light.

Do not store above 25°C.

If accidentally frozen, shake vigorously before use.

5.4 Nature and composition of immediate packaging

500, 1000, 2500 and 5000 ml fluorinated high-density polyethylene containers.

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 moxidectin 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

Zoetis Belgium S.A

7. MARKETING AUTHORISATION NUMBER(S)

VPA10387/012/001

8. DATE OF FIRST AUTHORISATION

09/12/2013

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

07/02/2024

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>).