CAUTION
KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING
FOR ANIMAL TREATMENT ONLY

Moxidectin
Pour-On for Cattle

ACTIVE CONSTITUENT: MOXIDECTIN 5g/L
SOLVENT: HYDROCARBON LIQUID 150g/L

For the treatment and control of moxidectin sensitive internal and external parasites of cattle.

APVMA Approval No.: 69563/61136

Contents: 1L; 2L; 2.5L; 5L; 10L; 15L; 20L

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INTRODUCTION
PASTORAL AG Moxidectin Pour-On for Cattle is an endectocide with efficacy in treating and controlling internal and external parasites in cattle.

PRODUCT DESCRIPTION
PASTORAL AG Moxidectin Pour-On for Cattle comes ready to use as a clear solution containing 5 g/L moxidectin. Moxidectin is a second generation macrocyclic lactone endectocide. It is effective against parasites sensitive to this family. Resistance can occur to any chemical.

SPECTRUM OF ACTIVITY
PASTORAL AG Moxidectin Pour-On for Cattle is effective in the treatment and control of the following parasites affecting cattle:
- Gastrointestinal (adult and larval (L4) nematodes)
  - Haemonchus placei - Barber’s Pole Worm
  - Ostertagia ostertagi (O. lyrata)
    - Small Brown Stomach Worm including inhibited larvae
  - Trichostrongylus axei – Stomach Hair Worm
  - Trichostrongylus colubriformis – Black Sow Worm
  - Trichostrongylus longiscularis
  - Cooperia oncophora (C. sumabada/C. mcmasteri)
    - Small Intestinal Worm
  - Cooperia punctata
  - Cooperia pectinata
- Nematodirus helvetianus – Thin Necked Intestinal Worm
- Bunostomum phlebotomum – Hookworm
- Oesophagostomum radiatum – Nodule Worm
- Trichuris spp. – Whipworm

Lungworm
Dicyocaulus viviparus

Cattle Tick
Rhipicephalus microplus

Lice
Liogonathus vituli
Haematopinus eurysternus
Solenopotes capillatus
Bovicola bovis

Mange Mites
Choriotes bovis

PASTORAL AG Moxidectin Pour-On for Cattle is effective in the treatment and aid in control of:

Buffalo Fly
Haematobia irritans exigua

Persistent activity
In cattle, following a single application at the recommended dose rate, PASTORAL AG Moxidectin Pour-On for Cattle prevents re-infection with the following parasite species:

<table>
<thead>
<tr>
<th>Parasite species</th>
<th>Persistent protection period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ostertagia ostertagi (O. lyrata)</td>
<td>42 days</td>
</tr>
<tr>
<td>Haemonchus placei</td>
<td>28 days</td>
</tr>
<tr>
<td>Trichostrongylus axei</td>
<td>28 days</td>
</tr>
<tr>
<td>Dicyocaulus viviparus</td>
<td>42 days</td>
</tr>
<tr>
<td>Oesophagostomum radiatum</td>
<td>42 days</td>
</tr>
<tr>
<td>Bunostomum phlebotomum</td>
<td>42 days</td>
</tr>
<tr>
<td>Nematodirus helvetianus</td>
<td>21 days</td>
</tr>
</tbody>
</table>

Cattle Tick (Rhipicephalus microplus) Control
PASTORAL AG Moxidectin Pour-On for Cattle is effective for treatment and control of cattle tick on cattle, including strains resistant to organophosphates, synthetic pyrethroids and amides.

The persistent activity of PASTORAL AG Moxidectin Pour-On for Cattle prevents the development of viable cattle tick (Rhipicephalus microplus) for 21 days after treatment. For strategic programs treatment at 21 day intervals is recommended.

Some engorged females continue to drop for up to three days after the first treatment, and these may lay some viable eggs. This should be taken into account when planning a strategic dipping program.

Buffalo Fly (Haematobia irritans exigua) Control
The persistent activity of PASTORAL AG Moxidectin Pour-On for Cattle can be used as an aid in the control of buffalo fly (Haematobia irritans exigua) for up to 14 days after treatment.

DIRECTIONS FOR USE
Dosage and Administration
Cattle and Red Deer
PASTORAL AG Moxidectin Pour-On for Cattle should be applied along the top of the back from the withers to the base of the tail. The volume to use is 1mL per 10kg liveweight. This will administer the correct dose of 0.5mg/kg liveweight. PASTORAL AG Moxidectin Pour-On for Cattle can be used in lactating dairy cattle, but DO NOT TREAT LACTATING CATTLE AT LESS THAN 21 DAY INTERVALS.

The following table may be used as a guide for the dose volume to use.

<table>
<thead>
<tr>
<th>Liveweight (kg)</th>
<th>Dose (mL)</th>
<th>Doses per Pack</th>
</tr>
</thead>
<tbody>
<tr>
<td>31-40</td>
<td>4</td>
<td>1000</td>
</tr>
<tr>
<td>41-50</td>
<td>5</td>
<td>1250</td>
</tr>
<tr>
<td>51-60</td>
<td>6</td>
<td>1500</td>
</tr>
<tr>
<td>61-70</td>
<td>7</td>
<td>1750</td>
</tr>
<tr>
<td>71-80</td>
<td>8</td>
<td>2000</td>
</tr>
<tr>
<td>81-90</td>
<td>9</td>
<td>2500</td>
</tr>
<tr>
<td>91-100</td>
<td>10</td>
<td>3333</td>
</tr>
<tr>
<td>101-125</td>
<td>12.5</td>
<td>4166</td>
</tr>
<tr>
<td>126-150</td>
<td>15</td>
<td>5000</td>
</tr>
<tr>
<td>151-175</td>
<td>17.5</td>
<td>6666</td>
</tr>
<tr>
<td>176-200</td>
<td>20</td>
<td>8333</td>
</tr>
<tr>
<td>201-250</td>
<td>25</td>
<td>10000</td>
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<tr>
<td>251-300</td>
<td>30</td>
<td>12500</td>
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<tr>
<td>301-350</td>
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<td>16660</td>
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<td>351-400</td>
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<tr>
<td>551-600</td>
<td>60</td>
<td>50000</td>
</tr>
<tr>
<td>601-650</td>
<td>65</td>
<td>66666</td>
</tr>
</tbody>
</table>

Cattle in excess of 650kg should be dosed at 1mL per 10kg liveweight.

NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION
A representative sample of animals should be weighed before treatment either with scales or a weighband. Dose rate should be based on the heaviest animal in each group (bulls, cows, steers, calves, etc.). DO NOT underdose.

Check accuracy of dose delivery of applicator regularly. Where there is a large variation in size within the group, draft into two or more lines based on bodyweight, to avoid excessive overdosing.

Rainfast
The efficacy of PASTORAL AG Moxidectin Pour-On for Cattle is not adversely affected if applied when the hide is wet, or if rain occurs shortly after application. However the efficacy against tick and buffalo fly may be reduced if very heavy rain occurs following treatment. Treatment of animals under these circumstances is not good agricultural practice.

Weatherproof
The efficacy of PASTORAL AG Moxidectin Pour-On for Cattle is not adversely affected if applied to cattle under extreme environmental conditions such as very high UV-light and temperatures in summer and very low temperatures in winter.

Non Irritant
PASTORAL AG Moxidectin Pour-On for Cattle does not cause irritation to the skin or hide damage when used as directed.

Safety to Target Animals
PASTORAL AG Moxidectin Pour-On for Cattle has a wide margin of safety when used at the recommended dose rate in all ages and breeds of cattle including pregnant cows and breeding bulls.

Concurrent Use
PASTORAL AG Moxidectin Pour-On for Cattle is safe to use concurrently with other treatments in cattle including mineral supplements, fluke treatments and vaccines. DO NOT apply at the same time as any other pour-on product.

Effect on Dung Beetles
When applied as directed, the levels of PASTORAL AG Moxidectin Pour-On for Cattle in the faeces of treated cattle are not likely to have any significant adverse effect on the following dung beetles: Onthophagus gazella, O. taurus, Euoniticellus intermedius and E. fulvus. Effects on other dung beetle species have not been fully evaluated.
Parasite Control Programs
Effective parasite control for maximum productivity is an essential part of farm management. Follow recommended parasite management practices to reduce the potential for resistance to develop.

WITHHOLDING PERIOD
MEAT: ZERO (0) days
MILK: ZERO (0) days

EXPORT SLAUGHTER INTERVAL (ESI): Zero (0) days
The ESI on this label was correct at the time of label approval. Before using this product, confirm the current ESI with the manufacturer on (02) 9999 6655 or the APVMA website (www.apvma.gov.au/residues/).

SAFETY DIRECTIONS
Poisonous if swallowed. May irritate the nose and throat: Will irritate the eyes and skin. Avoid contact with eyes and skin. Do not inhale. Wash hands after use.

FIRST AID
If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126.

ENVIRONMENTAL PROTECTION
Very toxic to aquatic life. Do not contaminate dams, rivers, streams or other waterways with the chemical or used containers.

DISPOSAL
1L: Dispose of empty container by wrapping with paper and putting in garbage.
2L, 2.5L, 5L, 10L, 15L, 20L: Triple or (preferably) pressure rinse container. DO NOT dispose of undiluted chemicals on site. Break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, vegetation and tree roots. Empty containers and product should not be burnt.

STORAGE
STORE below 30°C (Room Temperature) and protect from light.

CONDITIONS OF SALE: TITAN AG Pty Ltd shall not be liable for any loss injury damage or death whether consequential or otherwise whatsoever or howsoever arising whether through negligence or otherwise in connection with the sale supply use or application of this product. The supply of this product is on the express condition that the purchaser does not rely on TITAN AG’s skill or judgment in purchasing or using the same and every person dealing with this product does so at his own risk absolutely. No representative of TITAN AG Pty Ltd has any authority to add to or alter these conditions.