The Hunter River Company Pty Limited | ACN 133 798 615 | 74-76 Drummond Road, Scheppartton VIC 3630 | Ph: (03) 5821 0922 | APVMA Approval No. 84849/11548

General Directions:
NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION

MOXISTAR LONG ACTING INJECTION FOR CATTLE has a wide margin of safety when used as recommended.

MOXISTAR LONG ACTING INJECTION FOR CATTLE is safe to use concurrently with other treatments including mineral supplements and vaccines.

Caution: avoid carcass damage

Resistance may develop to any chemical

1. Sterilise all injection apparatus by boiling (or equivalent) before use. Avoid use of strong disinfectants on apparatus.
2. Maintain cleanliness at all times.
3. Keep needles sharp and clean. Replace frequently.
4. Use shortest needle possible, certainly not exceeding 15mm.
5. As far as possible, avoid injection of animals during wet weather or under dusty conditions.
6. This product should only be injected under the skin into the back surface of the ear. It should be injected in the third of the ear closest to the head. Do not inject at any other site.

Effect on dung beetles
When applied as directed, the levels of MOXISTAR LONG ACTING INJECTION 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.

WITHHOLDING PERIODS
MEAT: DO NOT USE less than 56 days before slaughter for human consumption.
MILK: DO NOT USE in lactating cows or within 80 days of calving where milk may be used or processed for human consumption.
DO NOT USE less than 108 days before slaughter for export. Before using this product, confirm the current ESI from The Hunter River Company Pty Limited on (03) 5821 0922 or the APVMA website (www.apvma.gov.au/resiudes).

TRADE ADVICE – EXPORT SLAUGHTER INTERVAL (ESI)
DO NOT USE in cattle that may be exported live.

SAFETY DIRECTIONS
Poisonous if swallowed. May irritate the nose and throat. Will irritate 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 13 11 26.

ADDITIONAL USER SAFETY INFORMATION
Warning: avoid self-injection
Accidental self-injection may cause an inflammatory or allergic response and medical advice should be sought in these cases. Deep injections, particularly if they are near a joint or associated with local bursing may require medical management. In most circumstances application of gentle pressure with absorbent material, e.g. facial tissues, to the needle puncture area to swab up unabsorbed product followed by cleaning of the damaged area with a suitable disinfectant will be sufficient to prevent problems.

Additional information is listed in the Safety Data Sheet (SDS).

ENVIRONMENTAL PROTECTION
Moxidectin is extremely toxic to aquatic species. Do not contaminate dams, rivers, streams or other waterways with the chemical or used container.

DISPOSAL
Dispose of container by wrapping with paper and putting in garbage. Discarded needles should immediately be placed in a designated and appropriately labelled "sharps" container.

STORAGE
Store below 30°C (room temperature). Protect from light.

HUNTER RIVER CO.

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DIRECTIONS FOR USE

Restraints:
DO NOT USE in cattle that may be exported live.

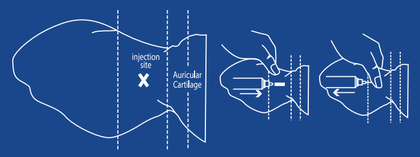
MILK: DO NOT USE in lactating cows or within 80 days of calving where milk may be used or processed for human consumption.

INJECT ONLY by subcutaneous injection into the back of the ear (as directed below). Do not inject anywhere else in the animal. Injection sites anywhere else on the animal may result in injection site residues that exceed approved limits at the Withholding Period or Export Slaughter Interval.

Dosage and Administration:
Discard unused portion after 6 months of first broaching container.

Dose Rate:
1 mg moxidectin/kg liveweight (1 mL/100 kg liveweight).

MOXISTAR LONG ACTING INJECTION FOR CATTLE must be administered by subcutaneous (under the skin) injection into the back of the ear towards its base. DO NOT administer anywhere else on the animal. Avoid intravascular (into a blood vessel) injection. Some injection site reactions or generalised reactions are possible. Treat as appropriate. The animal must be confined in a restraint mechanism (head ball). Using a 5 mL injector gun fitted with a 16 or 18 gauge, 12 to 18 mm needle, inject into the back of the ear towards its base. To accomplish this the needle should be inserted at the point indicated by the 'X' in the illustration, all the way up to the hub. Inject slowly and after injection withdraw the needle and place finger pressure on the site for a few seconds.



Any potential site reactions may be minimised by attention to injection hygiene. If any generalised reactions such as ataxia (staggering), lying down or excess salivation occur, seek veterinary advice.

The product is ready to use. Administer the dose according to the dosage table using an appropriate 5 mL injector gun. Do not use any other injector. Check dose rates and equipment before treatment commences. Cattle should be weighed prior to dosing and treated according to the weight range bracket in the dosage table below. Do not underdose.

Weight Range (kg)	Dose Volume (mL)	No. of Cattle Treated 500 mL
* 100	1.0	500
101–150	1.5	333
151–200	2.0	250
201–250	2.5	200
251–300	3.0	166
301–350	3.5	142
351–400	4.0	125
401–450	4.5	111
451–500†	5.0	100

* DO NOT USE IN CATTLE LESS THAN 100 KG † DO NOT USE IN CATTLE GREATER THAN 500 KG

A representative sample of animals should be weighed before treatment either with scales or a weighband.

Dose rate to be based on heaviest cattle in each group (bulls, cows, steers, calves, etc). Do not underdose. Where there is a large variation in size within a group, draft into two or more lines based on bodyweight, to avoid excessive overdosing.

Re-treatment Interval: DO NOT retreat with MOXISTAR LONG ACTING INJECTION FOR CATTLE for at least 56 days after administration.

MOXISTAR®
LONG ACTING INJECTION FOR CATTLE

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

MOXISTAR®
LONG ACTING INJECTION FOR CATTLE

ACTIVE CONSTITUENT: 100 mg/mL MOXIDECTIN

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

500 mL

MOXISTAR LONG ACTING INJECTION FOR CATTLE contains moxidectin, a second generation member of the macrocyclic lactone family of chemicals. It is effective against sensitive strains of the following parasites:

Internal parasites:

Mature (adult) and immature (L_4)
Haemonchus placei (Barber's pole worm)
Haemonchus contortus
Ostertagia ostertagi / Ostertagia lyrata (including inhibited larvae)
Trichostrongylus spp. (Black scour worms)
Trichostrongylus axei
Cooperia oncophora (Small intestinal worm)
Cooperia pectinata
Cooperia punctata
Oesophagostomum radiatum (Nodule worm)
Bunostomum phlebotomum (Hookworm)
Trichuris discolor (Whipworm)
Trichuris ovis
Dictyocaulus viviparus (Lungworm)

Adult nematodes
Nematodirus spathiger
Nematodirus helvetianus

External parasites:

Lice (Sucking lice)
Linognathus vituli
Haematopinus eurysternus
Solenopotes capillatus
Aids in the control of *Bovicola bovis* (biting lice)

Mites
Chorioptes bovis

Ticks
Rhipicephalus (Boophilus) microplus

PROTECTION PERIOD
When MOXISTAR LONG ACTING INJECTION FOR CATTLE is used at the recommended dose rate as a single subcutaneous injection, it prevents re-infection of cattle with parasites as in the following table:

Parasite Species	Persistent Protection Period
Ostertagia spp.	112 days
Haemonchus spp.	120 days
Trichostrongylus axei.	72 days
Cooperia spp.	21 days
Dictyocaulus viviparus	120 days
Oesophagostomum radiatum	120 days
Linognathus vituli	133 days

MOXISTAR LONG ACTING INJECTION FOR CATTLE is effective for treatment and control of cattle tick, including strains resistant to organophosphates, synthetic pyrethroids and amidines. The persistent activity of MOXISTAR LONG ACTING INJECTION FOR CATTLE prevents the development of viable cattle tick (*Rhipicephalus (Boophilus) microplus*) for at least 51 days and prevents egg production for at least 65 days after treatment. Some engorged females containing viable eggs may continue to drop for up to 4 days after treatment. This should be taken into account when planning a strategic treatment program.

Toxic if swallowed.
May cause respiratory irritation.
Causes damage to organs through prolonged or repeated exposure.
Do not get in eyes, on skin, or on clothing.
Wash contacted areas thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves and protective clothing.
Take off contaminated clothing and wash before reuse.
IF SWALLOWED, rinse mouth. DO NOT induce vomiting.
IF ON SKIN: Wash with plenty of soap and water.

BATCH:

EXP:

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MOXISTAR®
LONG ACTING INJECTION FOR CATTLE