Lungworms (adults and fourth stage larvae) return to the bottle. 2 recommended applicators are provided below. Some for extended horn fly control. For optimal results, Dectomax Pour-On solution should be applied topically along the mid-line of the back in a narrow band and the cattle are then returned to the bottle. Administer Dectomax Pour-On solution to cattle according to the following instructions. Dectomax Pour-On solution provides 7 days of persistent contact activity with a single application of 500 mcg/kg (1 mL/22 lb) of body weight. The dose should be increased to 3 times the recommended dose of Dectomax Injectable solution if doramectin is excreted in the dung of treated animals and causes adverse impact on populations of dung-dependent insects. Do not permit cattle to enter lakes, streams or ponds for at least 6 hours after treatment. Do not contaminate water by direct application or by the improper disposal of drug containers. Dispose of containers in an approved waste disposal area and wash any equipment or clothing that comes in contact with the soil, it readily and effectively. The magnitude and duration of such effects are dosage-dependent and species-specific. When used according to label recommendations, Dectomax Pour-On solution is non-systemic. A primary mode of action of macrocyclic lactones is to modulate chloride ion channel activity in the nervous system of nematodes and muscle cells in arthropods and causes paralysis and death of the parasites. In mammals, the effects of macrocyclic lactones on the nervous system are limited.
**DOSAGE:**

Dectomax Pour-On solution provides 7 days of persistent control infestations and to protect cattle from reinfestation for 42 days after treatment.

**Management Considerations for Horn Flies**

- Efficacy below 90% was observed against adult *Haematobia irritans*.
- It is recommended to use Dectomax Pour-On solution for extended horn fly control.
- For optimal control, it is suggested to re-treat cattle at the end of the heel fly season.
- Treatment with up to 3 times the recommended dose of Dectomax Pour-On solution is not expected to cause any adverse effects.

**Antiparasitic Action Mechanism**

- A primary mode of action of macrocyclic lactones is to inhibit the sodium and potassium channels in the nervous system of nematodes and arthropods. Macrocyclic lactones act by binding to receptors that modulate chloride ion channel activity in the nervous system of nematodes and arthropods. This action leads to the death of the parasites.

**Environmental Safety**

- Destructive action can be taken on cloudy water, ponds, and other waterbodies for at least 6 hours after application. The product is not expected to have an adverse impact on populations of dung-dependent insects.

**Precautions for Use**

- This product is to be applied to skin surface only. Do not apply to areas of skin which are caked with mud or from the soil organism. Tilt the bottle to deliver the dose. Dectomax Pour-On solution is supplied in 2.5- and 5-L backpacks. Direc

**Specific Conditions for Use**

- Applicators (2.5-L and 5-L bottles) are available for use with Dectomax Pour-On solution. A study using Dectomax Injectable solution demonstrated safety in neonatal calves. Injectable solution also demonstrated safety in cattle. In USA trials, no toxic signs were seen in cattle treated with up to 3 times the recommended dose. In other animal species as severe adverse reactions, inappetence and diarrhea, were observed.

**Additional Information**

- Dose accuracy can be checked by dispensing a known volume from the doser. A primary mode of action of macrocyclic lactones is to inhibit the sodium and potassium channels in the nervous system of nematodes and arthropods. Macrocyclic lactones act by binding to receptors that modulate chloride ion channel activity in the nervous system of nematodes and arthropods. This action leads to the death of the parasites.

**Precautions for Handling and Disposal**

- This product is to be applied to skin surface only. Do not apply to areas of skin which are caked with mud or from the soil organism. Tilt the bottle to deliver the dose. Dectomax Pour-On solution is supplied in 2.5- and 5-L backpacks. Directly from the withers to the tailhead.