IVERMECTIN POUR-ON FOR CATTLE - ivermectin solution
Durvet
--------

IVERMECTIN
(ivermectin topical solution)
5 mg ivermectin per mL
POUR-ON for Cattle POUR-ON for Cattle

PARASITICIDE Kills: Roundworms (including Brown Stomach Worm), Lungworms, Grubs, Sucking Lice, Biting Lice, Mange Mites, Horn Flies

Do not contaminate water by direct application or by the improper disposal of drug containers. Dispose of containers in an approved landfill or by incineration.

WARNING! FLAMMABLE! KEEP AWAY FROM HEAT, SPARKS, OPEN FLAME, AND OTHER SOURCES OF IGNITION.
ANADA 200-340, Approved by FDA
Restricted Drug (California) - Use Only as Directed

For Animal Use Only • Keep Out of Reach of Children

www.durvet.com

See attached booklet for complete indications and use directions.

Parasiticide

Consult your veterinarian for assistance in the diagnosis, treatment and control of parasitism.

INTRODUCTION

Ivermectin Pour-On for Cattle (ivermectin topical solution) delivers internal and external parasite control in one convenient low-volume application. Ivermectin Pour-On for Cattle contains ivermectin, a unique chemical entity.

MODE OF ACTION

Ivermectin is a member of the macrocyclic lactone class of endectocides which have a unique mode of action. Compounds of the class bind selectively and with high affinity to glutamate-gated chloride ion channels which occur in invertebrate nerve and muscle cells.
This leads to an increase in the permeability of the cell membrane to chloride ions with hyperpolarization of the nerve or muscle cell, resulting in paralysis and death of the parasite.
Compounds of this class may also interact with other ligand-gated chloride channels, such as those gated by the neurotransmitter gamma-aminobutyric acid (GABA).
The margin of safety for compounds of this class is attributable to the fact that mammals do not have glutamate-gated chloride channels, the macrocyclic lactones have a low affinity for other mammalian ligand-gated chloride channels and they do not readily cross the blood-brain barrier.

INDICATIONS

Ivermectin Pour-On for Cattle applied at the recommended dose level of 500 mcg/kg is indicated for the effective treatment and control of these parasites.
Gastrointestinal Roundworms

*Ostertagia ostertagi* (including inhibited stage)  (adults and L₄)
*Haemonchus placei*  (adults and L₄)
*Trichostrongylus axei*  (adults and L₄)
*T. colubriformis*  (adults and L₄)
*Cooperia oncophora*  (adults and L₄)
*Cooperia punctata*  (adults and L₄)
*Cooperia surrnabada*  (adults and L₄)
*Strongyloides papillosus*  (adults)
*Oesophagostomum radiatum*  (adults and L₄)
*Trichuris* spp.  (adults)

**Lungworms**
*Dictyocaulus viviparus*  (adults and L₄)

**Cattle Grubs**
*Hypoderma bovis*  (parasitic stages)
*H. lineatum*

**Mites**
*Sarcoptes scabiei* var. *Bovis*

**Lice**
*Linognathus vituli*
*Haematopinus eurystemus*
*Damalinia bovis*
*Solenopotes capillatus*

**Horn Flies**
*Haematobia irritans*

**PERSISTENT ACTIVITY**

Ivermectin Pour-On for Cattle has been proved to effectively control infections and to protect cattle from re-infection with: *Oesophagostomum radiatum* and *Dictyocaulus viviparus* for 28 days after treatment; *Cooperia punctata* and *Trichostrongylus axei* for 21 days after treatment; *Ostertagia ostertagi*, *Haemonchus placei*, *Cooperia oncophora* and *Cooperia surrnabada* for 14 days after treatment; *Damalinia bovis* for 56 days after treatment.

**TREATMENT OF CATTLE FOR HORN FLIES**

Ivermectin Pour-On for Cattle controls horn flies (*Haematobia irritans*) for up to 28 days after dosing. For best results Ivermectin Pour-On for Cattle should be part of a parasite control program for both internal and external parasites based on the epidemiology of these parasites. Consult your veterinarian or an entomologist for the most effective timing of applications.

**DOSAGE**

The dose rate is 1 mL for each 22 lb of body weight. The formulation should be applied along the topline in a narrow strip extending from the withers to the tailhead.

**ADMINISTRATION**

For the 250 mL and 1 Liter containers, see the diagram on the last page of this insert. Each 5 mL will treat 110 lbs body weight. When body weight requires a drug product volume that is between the measuring markings, use the next higher increment.

**Applicator Gun**

(2.5 L, 5 L and 5 gallon bottles)

Because of the solvents used in Ivermectin Pour-On for Cattle, an applicator gun is recommended. Follow the applicator gun manufacturer’s directions for priming the gun, adjusting the dose, and care of the applicator gun following use.
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**ANIMAL SAFETY**

Studies conducted in the U.S.A. have demonstrated the safety margin for ivermectin. Based on plasma levels, the topically applied formulation is expected to be at least as well tolerated by breeding animals as is the subcutaneous formulation which had no effect on breeding performance.

**WARNING! NOT FOR USE IN HUMANS**

Keep this and all drugs out of reach of children.

The Material Safety Data Sheet (MSDS) contains more detailed occupational safety information. To report adverse effects, obtain an MSDS or for assistance, contact First Priority, Inc. at 1-800-650-4899.

**WARNING! FLAMMABLE! KEEP AWAY FROM HEAT, SPARKS, OPEN FLAME, AND OTHER SOURCES OF IGNITION**

This product should not be applied to self or others because it may be irritating to human skin and eyes and absorbed through the skin. To minimize accidental skin contact, the user should wear a long-sleeved shirt and rubber gloves. If accidental skin contact occurs, wash immediately with soap and water. If accidental eye exposure occurs, flush eyes immediately with water and seek medical attention.

**PRECAUTIONS:**

- Store at or below 25°C (77°F) and protect from light. Excursions permitted to 104°F (40°C).
- Use only in well-ventilated areas or outdoors.
- Close container tightly when not in use.
- Cattle should not be treated when hair or hide is wet since reduced efficacy may be experienced.
- Do not use when rain is expected to wet cattle within six hours after treatment.
- This product is for application to skin surface only. Do not give orally or parenterally.
- Cloudiness in the formulation may occur when Ivermectin Pour-On for Cattle is stored at temperatures below 32°F. Allowing to warm at room temperature will restore the normal appearance without affecting efficacy.
- Antiparasitic activity of ivermectin will be impaired if the formulation is applied to areas of the skin with mange scabs or lesions, or with dermatosis or adherent materials, e.g., caked mud or manure.
- Ivermectin has been associated with adverse reactions in sensitive dogs; therefore, Ivermectin Pour-On for Cattle is not recommended for use in species other than cattle.
- Restricted Drug (California) - Use only as directed.
When to Treat Cattle with Grubs

Ivermectin Pour-On for Cattle effectively controls all stages of cattle grubs. However, proper timing of treatment is important. For the most effective results, cattle should be treated as soon as possible after the end of the heel fly (warble fly) season. While this is not peculiar to ivermectin, destruction of Hypoderma larvae (cattle grubs) at the period when these grubs are in vital areas may cause undesirable host-parasite reactions. Killing Hypoderma lineatum when it is in the esophageal tissues may cause bloat; killing H. bovis when it is in the vertebral canal may cause staggering or paralysis. Cattle should be treated either before or after these stages of grub development.

Cattle treated with Ivermectin Pour-On for Cattle at the end of the fly season may be re-treated with Ivermectin Pour-On for Cattle during the winter without danger of grub-related reactions. For further information and advice on a planned parasite control program, consult your veterinarian.

Environmental Safety

Studies indicate that when ivermectin comes in contact with the soil, it readily and tightly binds to the soil and becomes inactive over time. Free ivermectin may adversely affect fish and certain aquatic organisms. Do not permit cattle to enter lakes, streams or ponds for at least six hours after treatment. Do not contaminate water by direct application or by the improper disposal of drug containers. Dispose of containers in an approved landfill or by incineration.

As with other avermectins, ivermectin is excreted in the dung of treated animals and can inhibit the reproduction and growth of pest and beneficial insects that use dung as a source of food and for reproduction. The magnitude and duration of such effects are species and life-cycle specific. When used according to label directions, the product is not expected to have an adverse impact on populations of dung-dependent insects.

HOW SUPPLIED:

Ivermectin Pour-On for Cattle is available in 250 mL (8.5 fl oz) and 1 L (33.8 fl oz) tip and measure bottles, and 2.5 L (84.5 fl oz), 5 L (169.0 fl oz), and 5 Gallon (639.0 fl oz) containers for use with an appropriate automatic dosing applicator.

Manufactured for:

Durvet Inc.
Blue Springs, Missouri 64014
www.durvet.com
tip "N" measure®
the exact amount

1 MEASURE  2 CHECK

3 ADJUST  4 POUR
The graduated measuring chamber of the container has 10 mL, 15 mL, 20 mL and 25 mL graduations.
**IVERMECTIN (ivermectin topical solution)**

**POUR-ON for Cattle**

5 mg ivermectin per mL

**PARASITICIDE**

**Kills:** Roundworms (including Brown Stomach Worm), Lungworms, Grubs, Sucking Lice, Biting Lice, Mange Mites, Horn Flies

Do not contaminate water by direct application or by the improper disposal of drug containers. Dispose of containers in an approved landfill or by incineration.

**WARNING! FLAMMABLE! KEEP AWAY FROM HEAT, SPARKS, OPEN FLAME, AND OTHER SOURCES OF IGNITION.**

**ANADA 200-340. Approved by FDA.**

Restrict Drug (California) - Use Only as Directed

For Animal Use Only • Keep Out of Reach of Children

**www.durvet.com**

**NET CONTENTS:** 1 Liter (33.8 fl oz)

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**Ivermectin Pour-On for Cattle**

**ivermectin topical solution**

NDC 30798-927-20

**Parasiticide**

Consult your veterinarian for assistance in the diagnosis, treatment and control of parasitoses.

**INTRODUCTION**

Ivermectin Pour-On for Cattle is a compounded topical solution delivered orally and external parasites control in a convenient low-volume application. Ivermectin Pour-On for Cattle contains ivermectin, a unique chemical entity.

**MODE OF ACTION**

Ivermectin is a member of the macroolide lactone class of anthelmintics which have a unique mode of action. Components of the class bind selectively and with high affinity to glutamate-gated chloride channels, which are widespread throughout the nervous system and other tissues.

This binds to the neuronal excitatory amino acid receptor (NMDA) and prevents the opening of the ion channel. As a result, nerve impulses are blocked at the neuromuscular junction.

**PERFORMANCE**

Ivermectin Pour-On for Cattle is intended for use in cattle and is effective against a wide range of parasites.

**ADDITIONAL INFORMATION**

Ivermectin Pour-On for Cattle is supplied in the recommended dose level of 500 mg/kg, or 5 liters, for the effective treatment and control of these parasites.

<table>
<thead>
<tr>
<th>Condition</th>
<th>Treatment</th>
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<tr>
<td>Roundworms</td>
<td>Ivermectin Pour-On for Cattle is effective against roundworms.</td>
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<tr>
<td>Lungworms</td>
<td>Ivermectin Pour-On for Cattle is effective against lungworms.</td>
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<td>Grubs</td>
<td>Ivermectin Pour-On for Cattle is effective against grubs.</td>
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<td>Mange Mites</td>
<td>Ivermectin Pour-On for Cattle is effective against mange mites.</td>
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<tr>
<td>Horn Flies</td>
<td>Ivermectin Pour-On for Cattle is effective against horn flies.</td>
</tr>
</tbody>
</table>

**WARNING:** Do not allow cattle to have access to the treated area for at least 48 hours after application. Do not allow cattle to enter treated areas until they are thoroughly dry.

**PRECAUTIONS:**

- **WARNING:** Do not use in animals with active infections or tumors. Do not use in animals with pre-existing dermatitis.
- **CAUTION:** Do not use in pregnant or lactating animals. Do not use in animals with a history of seizures or convulsions.
- **Ivermectin Pour-On for Cattle is not recommended for use in animals with a history of seizures or convulsions.**
- **ADVERSE REACTIONS:**
  - **INCREASED DISCHARGE OR LAMENESS:**
  - **SLOW GROWTH:**
  - **LOSS OF CONDITION:**
  - **SLOW MATURED:**

**HUMAN SAFETY:**

**STUDIES CONDUCTED IN THE U.S.A. HAVE DEMONSTRATED A SAFE MARGIN FOR HUMANS:**

**ADDITIONAL INFORMATION:**

This product contains ivermectin, which has been associated with disulfiram-like reactions in humans. Disulfiram-like reactions are characterized by flushing, skin rash, and gastrointestinal effects. Therefore, patients should be advised to discontinue use if signs of a disulfiram-like reaction occur.

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**Keep this and all drugs out of the reach of children.**

**WARNING! FLAMMABLE! KEEP AWAY FROM HEAT, SPARKS, OPEN FLAME, AND OTHER SOURCES OF IGNITION.**

For information on product compatibility, please contact Durvet Customer Service at 1-800-321-2677.

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**Veterinary Drug Registration**

**DUR-30798-927-20**

**Mfg. Date:**

**Expiry Date:**

**Other Information:**

**Durvet, Inc. 7100 W. 68th Place, Kansas City, MO 64120**

**www.durvet.com**

**(800) 321-2677**

**2009 Durvet, Inc.**

**DUR-30798-927-20**

**Mfg. Date:**

**Expiry Date:**

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**(800) 321-2677**

**2009 Durvet, Inc.**
IVERMECTIN (ivermectin topical solution) POUR-ON for Cattle
5 mg ivermectin per mL

PARASITICIDE  Kills:  Roundworms (including Brown Stomach Worm), Lungworms, Grubs, Sucking Lice, Biting Lice, Mange Mites, Horn Flies

Do not contaminate water by direct application or by the improper disposal of drug containers. Dispose of containers in an approved landfill or by incineration.

WARNING! FLAMMABLE! KEEP AWAY FROM HEAT, SPARKS, OPEN FLAME, AND OTHER SOURCES OF IGNITION.

ANADA 200-340. Approved by FDA
Restricted Drug (California) - Use Only as Directed
For Animal Use Only • Keep Out of Reach of Children

www.durvet.com
NET CONTENTS: 2.5 Liter (84.5 fl oz)

Ivermectin Pour-On for Cattle
(ivermectin topical solution)
ANADA 200-340. Approved by FDA
Contains 5 mg ivermectin/mL

Indications: See attached booklet for complete indications and use directions.

DOSAGE: The dose is 1.0 mL for each 220 lb (100 kg) of body weight. The treatment should be repeated every 14 days after the initial treatment.

ADVERSE REACTIONS: For the ivermectin-sensitive breeder, see the precautions on the back of the label.

WARNING: FLAMMABLE! KEEP AWAY FROM HEAT, SPARKS, OPEN FLAME, AND OTHER SOURCES OF IGNITION.

Keep this and all drugs out of the reach of children. WARNING: FLAMMABLE! KEEP AWAY FROM HEAT, SPARKS, OPEN FLAME, AND OTHER SOURCES OF IGNITION.

RECORDING: Cattle should be treated within 48 hours of the last treatment to prevent reinfection. Because ivermectin is used in cattle that has not been established, do not use in food animals for human consumption. A withholding period has been established for this product in accordance with the labeling. This withholding period is in addition to any other withholding periods required by the food animal withdrawal guidelines and the applicable state and federal regulatory agency systems.

PRECAUTIONS: See the precautions included on the back of the label. Warning: Flammable. Keep away from heat, sparks, open flame, and other sources of ignition. This product is for animal use only and is not for human consumption. This product is flammable and may cause serious injury if inhaled or swallowed. Keep out of reach of children.

ANIMAL SAFETY: Do not use in combination with the following products: The combination of ivermectin and milbemycin oxime in a single dose for cattle or sheep. For the ivermectin-sensitive breeder, see the precautions on the back of the label.

WARNING: NOT FOR USE IN HUMANS: This product is for animal use only. Do not use in combination with a ivermectin and milbemycin oxime in a single dose for cattle or sheep. For the ivermectin-sensitive breeder, see the precautions on the back of the label.

Ivermectin Pour-On for Cattle applied at the recommended dose level of 1.0 mL/kg body weight by a licensed veterinarian or under the direct supervision of a licensed veterinarian.

Use caution when handling this product. The container is under pressure and can release dangerous substances under certain conditions. This product is flammable and may cause serious injury if inhaled or swallowed. Keep out of reach of children.

Distribution: The distribution of this product is subject to the guidelines established by the Food and Drug Administration. For more information, visit the Durvet website or contact your local Durvet representative.

Keep this and all drugs out of the reach of children. WARNING: FLAMMABLE! KEEP AWAY FROM HEAT, SPARKS, OPEN FLAME, AND OTHER SOURCES OF IGNITION.

Ivermectin Pour-On for Cattle
(ivermectin topical solution)
5.0 L Container/Carton
rev. ISSU18XB02
PARASITICIDE
Kills: Roundworms (including Brown Stomach Worm), Lungworms, Grubs, Sucking Lice, Biting Lice, Mange Mites, Horn Flies

Do not contaminate water by direct application or by the improper disposal of drug containers. Dispose of containers in an approved landfill or by incineration.

WARNING! FLAMMABLE! KEEP AWAY FROM HEAT, SPARKS, OPEN FLAME, AND OTHER SOURCES OF IGNITION.
ANADA 200-340, Approved by FDA
Restricted Drug (California) - Use Only as Directed
For Animal Use Only • Keep Out of Reach of Children

www.durvet.com
NET CONTENTS: 5 Liter (169.0 fl oz)

Ivermectin Pour-On for Cattle (ivermectin topical solution)
ANADA 200-340, Approved by FDA
Contacts for Ivermectin 548-6464

See attached booklet for complete indications and use directions.
IVERMECTIN POUR-ON FOR CATTLE
Ivermectin solution

Product Information

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**Labeler** - Durvet (056387798)

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Revised: 8/2019