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.

Approved by FDA under ANADA # 200-340 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 macrocylic 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

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) Haemonchus placei Trichostrongylus axei T. colubriformis Cooperia oncophora Cooperia punctata Cooperia surnabada Strongyloides papillosus Oesophagostomum radiatum Trichuris spp.

Lungworms

Dictyocaulus viviparus

Cattle Grubs

Hypoderma bovis 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 viviparous* for 28 days after treatment; *Cooperia punctata* and *Trichostrongylus axei* for 21 days after treatment; *Ostertagia ostertagi, Haemonchus placei, Cooperia oncophora* and *Cooperia surnabada* 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.

 $\begin{array}{l} (adults and L_4) \\ (adults) \\ (adults and L_4) \\ (adults) \end{array}$

(adults and L₄) (parasitic stages)

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.

Weig	Dose	
220	lb (100 kg)	10 mL
330	lb (150kg)	15 mL
440	lb (200 kg)	20 mL
550	lb (250 kg)	25 mL
660	lb (300 kg)	30 mL
770	lb (350 kg)	35 mL
880	lb (400 kg)	40 mL
990	lb (450 kg)	45 mL
1100	lb (500 kg)	50 mL

Do not underdose. Ensure each animal receives a complete dose based on a current body weight. Underdosing may result in ineffective treatment, and encourage the development of parasite resistance.

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

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.

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

OTHER WARNINGS

• Parasite resistance may develop to any dewormer, and has been reported for most classes of dewormers.

• Treatment with a dewormer used in conjunction with parasite management practices appropriate to the geographic area and the animal(s) to be treated may slow the development of parasite resistance.

• Fecal examinations or other diagnostic tests and parasite management history should be used to determine if the product is appropriate for the herd/flock, prior to the use of any dewormer. Following the use of any dewormer, effectiveness of treatment should be monitored (for example, with the use of a fecal egg count reduction test or another appropriate method).

• A decrease in a drug's effectiveness over time as calculated by fecal egg count reductions tests may indicate the development of resistance to the dewormer administered. Your parasite management plan should be adjusted accordingly based on regular monitoring.

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 retreated with Ivermectin Pour-On for Cattle during the winter without danger of grubrelated 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.

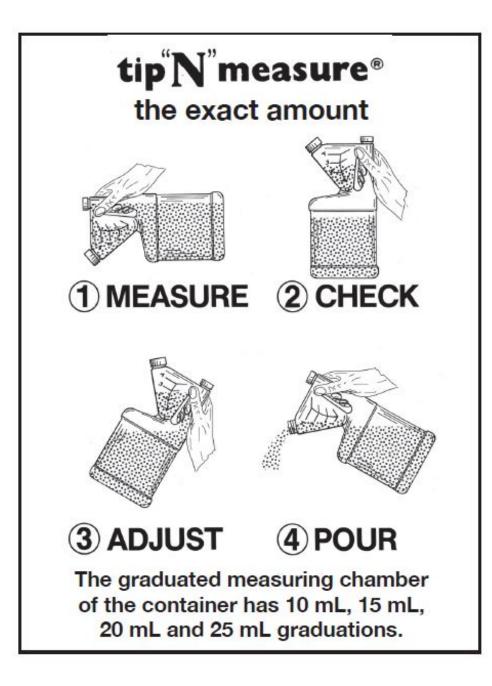
HOW SUPPLIED:

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**







NET CONTENTS: 250 mL (8.5 fl oz)



OTHER WARNINGS

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- monitoring. PRECAUTIONS: Store at or below 25°C (77°F) and protect from light. Excursions permitted to 104°F (40°C).

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appropriate automatic dosing applicator. Manufactured for: Durvet Inc., Blue Springs, MD 64014 www.durvet.com Made in the U.S.A

Sol . D 92 3 ADJUST 4 POUR The graduated measuring chamber of the container has 10 mL, 15 mL, 20 mL and 25 mL graduations.

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WARNING! FLAMMARIE! KEEP AWAY FROM HEAT, SPARKS, OPEN FLAME, AND OTHER SOURCES OF IGNITION. For Animal Use Only • Keep Out of Reach of Children

www.durvet.com NET CONTENTS: 250 mL (8.5 fl oz)

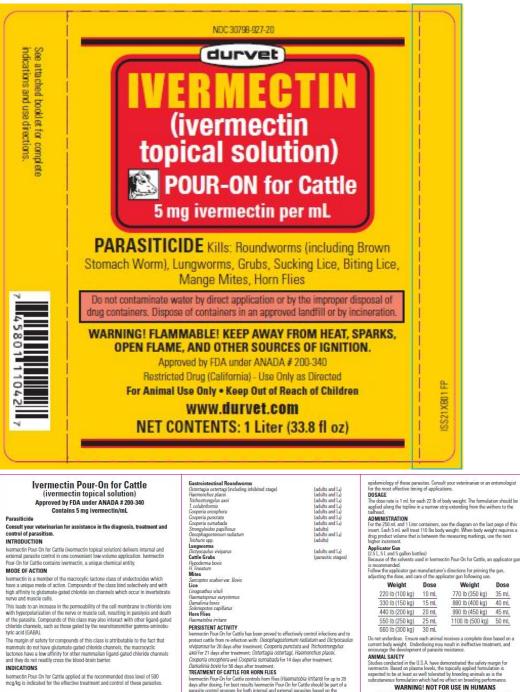
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To report adverse effects, obtain an SDS or for assistance, contact First Priority, Inc. at 1-800-650-4899. (parasitic stages) Contains 5 mg ivermeetav/mL. Parasiticide Consulty our veterinarian for assistance in the diagness, treatment and control of parasitism. NITROUCTION Momentin Flux On for Catlle (ivermeetin topical solution) delivers internal and external parasite control in one Catlle contains externed. A unque chemical entity. MODE OF ACTION MODE OF ACTION Phorty, Inc. at 1-800-650-4899. WARNING! FLAMMABLE! KEEP AWAY FROM HEAT, SPARKS, OPEN FLAME, AND OTHER SOURCES OF IGNITION. channels and they do not makily cross the blood brain barrow. NUCLATIONS Hermetch Toyon for Cattle applied at the mammend dose level of 500 mayles is control of these parameters. 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Compounds of the class may also interact with others Compounds of the class may also interact with others (gated gated channels, and a state gated by the The margin of safety for compounds of this class is Internation Flast Chin for Cattle has been proved to effectively control infestions and to protect cattle from re-infection with: Descriptagosto-mum radiatuma and Diotycaudus varyingmous for 28 days after treatment: Cooperia guanctata and Inchostangoyte ausi for 21 days after treatment: Ostertagia astertagi, Hennorchus Janoi, Cooperia conception and Cooperia sumabuda for 14 days after treatment; Danavlinia hone; 16 feb davs after treatment; Duty works ineffective treatment, and encourage development of parasite resistance. ANIMAL SAFETY Shufies conducted in the U.S.A. have Iteration: **RESIDUE WARNING:** Cattle must not be treated within 48 days of sloughter for human consumption. Because withof awal fame in firmule dairy cattle of treated region. Famile dairy cattle of treating age. A withdraway product na not been established for this product in pre-turninating cables. Do not use in cabwas to be processed for weal. demonstrated the safety margin for ivermectin. Based on plasma levels, the next higher increment. **Applicator Gun** (2.51, 51 and 5 gallon bottles) Because of the solvents used in lvermectin Pour-On for Cattle, an applicator gun is recommended. Follow the applicator gun manufacturer's rvermectin. Based on plasma levels, the topically applied formulation is expected to be at least as well tolerated by breeding animals as is the subputaneous formulation which had sates to cooperation of the analysis of the treatment; Damalinia bowis for 56 days after treatment. TREATMENT OF CATTLE FOR HORN FLIES Ivernectin Pour-On for Cattle controls hom WARNING! NOT FOR USE IN HUMANS Keep this and all drugs out of much of child



1.0 L Container/Carton



The margin of safety of compounds or this class is a unbulate 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

PRECAUTIONS:

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

Environmental Safety Studies indicate that when iv

TREATMENT OF CATTLE FOR HORN FLIES

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.

Vermectin Pour-On for Cattle controls horn files (*Haamatobia intitans*) for up to 28 days after dosing. For best results lvermectin Pour-On for Cattle should be part of a parasite control program for both internal and external parasitos based on the

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HOW SUPPLIED: Ivermectin Pour-On for Cattle is available in 250 mL (8.5 fl oz) and 1 L (33.8 fl oz) fl oz) and 1 L (33.8 fl oz) fl oz) fl oz) containers for use with an appropriate automatic dosing

Manufactured for: Durvet Inc. Blue Springs, Missouri 64014 www.durvet.com

applicator.



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WARNING! NOT FOR USE IN HUMANS Keep this and all drugs out of the reach of children



3 ADJUST 4 POUR The graduated measuring chamber of the container has 10 mL, 15 mL, 20 mL and 25 mL graduations.

durvet VERMECTIN (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 not contaminate water by direct application or by the improper disposal of g 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 Approved by FDA under ANADA # 200-340

For Animal Use Only • Keep Out of Reach of Children

www.durvet.com NET CONTENTS: 1 Liter (33.8 fl oz)

classes of downmers. I numerst with a downmer used in conjunction with parasite management practices appropriate to the goographic area and the animal/al to be treated may also with dowledgement of parasite restatures. • Food examinations or other diagnostic tasts and parasite management history should be used to domining if the product classical appropriate for the welf/ook, prov-the same of any downmer. Foldwing the use of any downmer, difficult with the treatment should be most the manifered for analysis, with the use of a tool lago count in ductions and any downmer. Foldwing the use of any downmer, difficult and the analysis of the same of the same of the same of the same of the material state of the same of the same of the same of the same of the material state of the same of the material states and the same of the same of the same of the same of the material states and the same of the same of the same of the same of the same administred. Your parasite management plan should be adjusted accordingly based on regular monitoring.

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OF IGNITION. RESIDUE WARNING: Cattle must not be treated within 48 days of slaughter for horman consumption. Because a withdrawal time in milk has not been established, do not use in tenale dairy cattle of breeding age. A withdrawal period has not been established for this product in pre-runniating calves. Do not use in calves to be processed for weal. OTHER WARNINGS

Dose

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

- and r-sorray, mr. at 1400-650-4699.
This product should not be applied to solid or others because it may be initialing to human skin and yeas and abooted through the skin. In ominian accidental skin contract, the user should ware a long-sitewed shift and nubber glows. If accidental skin contract excurs, was immediately with sough and water. If accidental skin contract excurs, was immediately with sough and water. If accidental skin contract excurs, was immediately with water and aset.

WARNING! FLAMMABLE! KEEP AWAY FROM HEAT

SPARKS, OPEN FLAME, AND OTHER SOURCES OF IGNITION.

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 Use only in well-writikted areas or outdoors.
 Use on container tightly when not in use.
 Cattle should not be treated when hair or hide is wet since reduced efficacy may be experience.
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- an cattle. ×tricted Drug (California) Use only as directed.

When to Treat Cattle with Grubs

Ivermectin Pour-On for Cattle effectively controls all stages of cattle grubs. Normectin Pour-Dn for Cattle effectively controls all stages of cattle grubs. However, proper timining 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) assens. While this is not poculiar to kernetic, disstruction of *Hpodoma* larvae (cattle grubs) at the period when these grubs are in vital areas may cause undersitable host paration machine. Justice that *Hing Hpodoma* the vehiched catter and may cause bloat: killing *H*. *Dorsiv* short it is in the vehiched catter and may cause bloat: killing *H*. *Dorsiv* short is in the vehiched catter and may cause bloat. Killing *H*. *Devisiveline* is the the vehiched catter and may cause staggraphic or panalysis. Cattle should be treated either before or after these stages of grub.

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 neactions. For further information and advice on a planned perasite control program, consult your veterinarian.



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NET CONTENTS: 1 Liter (33.8 fl oz)

2.5 L Container/Carton

Blue Springs, MD 640

L

no coating



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

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

INTRODUCTION Ivermectin Pour-On for Cattle (ivermectin topical solution) delivers int vaternal parasite control in one convenient low-volume application. Iv Pour-On for Cattle contains ivermectin, a unique chemical entity.

MODE OF ACTION

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Interview and inscision transmission of the permeability of the cell membrane to chloride ions with hyperpolarization of the nerve or muscle cell, resulting in paralysis and death of the parasitic. Compounds of this class may also interact with other ligand-gated chloride channels, such as those gated by the neurotransmitter gamma-aminobu-tyric acid (GABA).

The margin of safety for compounds of this class is attributable to the fact that mammals do not have glutarate-gated chloride channels, the macrocyclic lactores have a low affinity for other mammalian [gand-gated chloride channels and they do not readily cross the blood-brain barrier.

INDICATIONS

PRECAUTIONS:

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lvermectin 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

Store at or below 25°C (77°F) and protect from light. Excursions permitted to 104°F (40°C).

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Normectin has been associated with adverse reactions in sensitive dogs; therefore, Normectin Pour-On for Cattle is not recommended for use in species other

When to Treat Cattle with Grubs hormsetin Pour-On for Cattle offactively controls all stages of cattle prubs. However, proper timing of treatment is important. For the most effective results, cattle should be treated as soon as possible after the and of the heal if lyvortie (hy second. While this is not poculiar to Veremetin, discutcion of *Hypotenna* larvae (cattle grubs) at the portod when these grubs are in visil arreas may cause undesized host parasite reactions. Cliffing *H*, *Jovis* when it is in the vertebral catent may cause block, killing *H*. *Dovis* when it is in the vertebral catent may cause stageting 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 seasor

cance instant with remnerant rear-on the cance at the one of the sy assisting may be re-tracted with Nermentic 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.

ug (California) - Use only as directed

When to Treat Cattle with Grubs

Environmental Safety

TREATMENT OF CATTLE FOR HORN FLIES

Environmence servery Studies indicate that when ivermeetin comes in contact with the soil, it readily and tightly binds to the soil and becomes inactive over time. Free ivermeetin may adversely affect fish and certain aquatic organisms. Do not permit cattle to enter takes, 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

HOW SUPPLIED:



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

tailhoad. ADMINISTRATION For the ZSO mL and 1 Liter containers, see the diagram on the last page of this insert. Each Sm 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.

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higher increment. Applicator Dau (25.1, 5.1 and Sgallen bottins) Because of the solvents used in hermactin Pour-On for Cattle, an applicator gun is recommended. Follow the applicator gun namufacturer's directions for prinning the gun, -stimuten the dose, and care of the applicator gun following use.

adj	usting the dose, and ca	ire of the appl	icator gun following use.	
	Weight	Dose	Weight	Dose
	220 lb (100 kg)	10 mL	770 lb (350 kg)	35 mL
	330 lb (150 kg)	15 mL	880 lb (400 kg)	40 mL
	440 lb (200 kg)	20 mL	990 lb (450 kg)	45 mL
	550 lb (250 kg)	25 mL	1100 lb (500 kg)	50 mL
	660 lb (300 kg)	30 mL	ST	

not underdose. Ensure each animal receives a complete dose based on rent body weight. Underdosing may result in ineffective treatment, and curage the development of parasite resistance. Do

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 the reach of children.

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

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 acadiental skin contact, the user should wave a long-slewed shirt and rubber glows. If acadiential skin contact to cours, wash immediately with sog and water. If acadiential skin contact cours, where the skin immediately with sog and water.

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

SPARKS, OPEN FLAME, AND OTHER SOURCES OF IGNITION. RESIDUE WARNING: Catile must not be treated within 48 days of slaughter for human consumption. Because a withdrawal time in milk has not home statiblinded, don to use in female dary catile of breeding age. A withdrawal paried has not been established for this product in pre-umaning casels. Do not use in calves to be processed for val.

OTHER WARNINGS

ance may develop to any dewormer, and has been reported for

- Treatment with a dowormer used in conjunction with parasite management practices appropriate to the geographic area and the animal(s) to be treated may slow the development of parasite resistance.
- store the development of paralism instations: to cold availability of the development of the state and paralism management binding should be used to determine if the product is appropriate for the head/link, prior to the use of any development. Following the use of any development, deferement of trustment chock the non-intend for scampla, with the use of a focal agg coarts matchicans to test or availability of the state of the development of additional trustment chock and the state of the development administration. Your paralism management plan should be adjusted accordingly bases on regular monitoring.

orms on inhibited stage)

Heamatobia emisas PERSISTENT ACTIVITY Ivemencin Pear-On for Chatthe abeen proved to effectively control infections and to protect cattle from en-infection with: Ossphragostomum radiatum and Dictyrozaulus winiparous lav 28 days after treatment; Cooperia punctata and Trichostrony/lus and live 12 days after treatment; Distringia ostratigi, Heamonchus place, Cooperia oncoptom and Cooperia sumalizada for 14 days after treatment;

Ivermectin Pour-On for Cattle controls hom 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

Ostertagia ostertagi (i Haemonchus placei Trichostrongylus axei T. colubriformis

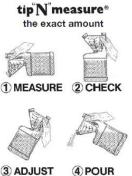
Dictyocaulus v Cattle Grubs

coptes scabiei var. Bovis **se** nognathus vituli nomatopinus eury malinia bovis

Solenopotes capillatus Horn Flies Haematobia irritans

animals and can inhibit the reproduction and growth of past and baneficial insacts 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.

Nermoctin Pour-Din for Cattlie is available in 250 mL (8.5 fl oz) and 1 L (33.8 fl oz) and 1 L (33.8 fl oz) and 1 L (33.8 fl oz) fl oz) fl oz measure bottles, and 2 5 L (84.5 fl oz), 5 L (163.0 fl oz), and 5 Gallon (63.9 fl oz) containers for use with an appropriate automatic desing applicator.



The graduated measuring chamber of the container has 10 mL, 15 mL, 20 mL and 25 mL graduations.







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

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

INTRODUCTION Ivermectin Pour-On for Cattle (ivermectin topical solution) delivers int vaternal parasite control in one convenient low-volume application. Iv Pour-On for Cattle contains ivermectin, a unique chemical entity.

MODE OF ACTION

vermedia is a member of the macrosylic lactone class of endectocides which two a unique mode of action. Compounds of the class bind selectively and with high affinity to glutamate add chilofde ion channels which occur in invertebrate two and muscle calls.

Interview and inscision transmission of the permeability of the cell membrane to chloride ions with hyperpolarization of the nerve or muscle cell, resulting in paralysis and death of the parasitic. Compounds of this class may also interact with other ligand-gated chloride channels, such as those gated by the neurotransmitter gamma-aminobu-tyric acid (GABA).

The margin of safety for compounds of this class is attributable to the fact that mammals do not have glutarate-gated chloride channels, the macrocyclic lactores have a low affinity for other mammalian [gand-gated chloride channels and they do not readily cross the blood-brain barrier.

INDICATIONS

PRECAUTIONS:

lvermectin 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

Environmental Safety

TREATMENT OF CATTLE FOR HORN FLIES

Environmence servery Studies indicate that when ivermeetin comes in contact with the soil, it readily and tightly binds to the soil and becomes inactive over time. Free ivermeetin may adversely affect fish and certain aquatic organisms. Do not permit cattle to enter takes, 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.

orms on inhibited stage)

Heamatobia emisas PERSISTENT ACTIVITY Ivemencin Pear-On for Chatthe abeen proved to effectively control infections and to protect cattle from en-infection with: Ossphragostomum radiatum and Dictyrozaulus winiparous lav 28 days after treatment; Cooperia punctata and Trichostrony/lus and live 12 days after treatment; Distringia ostratigi, Heamonchus place, Cooperia oncoptom and Cooperia sumalizada for 14 days after treatment;

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Dictyocaulus v Cattle Grubs

coptes scabiei var. Bovis **se** nognathus vituli nomatopinus eury malinia bovis

Solenopotes capillatus Horn Flies Haematobia irritans

As with other avermectins, ivermectin is excreted in the dung of treated animals and can inhibit the reproduction and growth of past and baneficial insacts 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:

Nermoctin Pour-Din for Cattlie is available in 250 mL (8.5 fl oz) and 1 L (33.8 fl oz) and 1 L (33.8 fl oz) and 1 L (33.8 fl oz) and 5 L (184.5 fl oz), 5 L (183.0 fl oz), and 5 Gallon (639.0 fl oz) containers for use with an appropriate automatic desing applicator.

Manufactured for: Durvet Inc. Blue Springs, Missouri 64014 www.durvet.com

 (\bigcirc)

OBSERVE LABEL



ogy of these parasites. Consult your veterinarian or an entomologist st effective timing of applications. DOSAGE

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

tailhoad. ADMINISTRATION For the ZSO mL and 1 Liter containers, see the diagram on the last page of this insert. Each Sm 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.

my 1

3 ADJUST

(adults and Le) (adults) (adults)

(adults and La)

higher increment. Applicator Dau (25.1, 5.1 and Sgallen bottins) Because of the solvents used in hermactin Pour-On for Cattle, an applicator gun is recommended. Follow the applicator gun namufacturer's directions for prinning the gun, -stimuten the dose, and care of the applicator gun following use.

adji	usting the dose, and ca	ire of the app	licator gun following use.	
	Weight	Dose	Weight	Dose
	220 lb (100 kg)	10 mL	770 lb (350 kg)	35 mL
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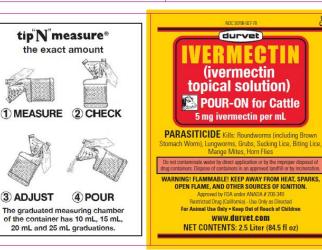
OTHER WARNINGS

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Treatment with a dowormer used in conjunction with parasite management practices appropriate to the geographic area and the animal(s) to be treated may slow the development of parasite resistance.

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圈



Store at or below 25°C (77°F) and protect from light. Excursions permitted to 104°F (40°C).

to 10FF (40°C). Use only in well-well-lated areas or outfoors. Close container trighty when not in use. Cattle should not be treated when hair or hide is wet since reduced efficacy may be experimed.

- be opprimend. Do not use when rain is expected to wet cattle within six hours after treatment. This product is for application to skin auface only, Do not give only or parenteally. Clucificases in the multiation may care when homescrip Reau Co for Cattle is started at temportume below 20°F. Allowing to seem at noon temporature will restore the normal apparentme whole utility of fiftings. Andparentine activity of kennectic will be impaired of the formulation is applied to manue of the abine macy scalar belowing, with downstrasis or advent materials, e.g., caled must or marue.
- Normectin has been associated with adverse reactions in sensitive dogs; therefore, Normectin Pour-On for Cattle is not recommended for use in species other
- han cat ug (California) - Use only as directed
- When to Treat Cattle with Grubs

When to Treat Cattle with Grubs hormsetin Pour-On for Cattle offactively controls all stages of cattle prubs. However, proper timing of treatment is important. For the most effective results, cattle should be treated as soon as possible after the and of the heal if lyvortie (hy second. While this is not poculiar to Veremetin, discutcion of *Hypotenna* larvae (cattle grubs) at the portod when these grubs are in visil arreas may cause undesized host parasite reactions. Cliffing *H*, *Jovis* when it is in the vertebral catent may cause block, killing *H*. *Dovis* when it is in the vertebral catent may cause stageting 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 seasor cance instant with remnerant rear-on the cance at the one of the sy assisting may be re-tracted with Nermentic 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.



5.0 L Container/Carton



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

Parasiticide

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

Ivernectin Pour-On for Cattle (ivermectin topical solution) delivers internal and avetrarial parasite control in one convonient tow-volume application. Ivermectin Pour-On for Cattle contains ivermectin, a unique chemical entity.

MODE OF ACTION

Nermetic is a member of the macrocytic 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 mere and muscle cells.

nerve and masser cens. 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 para)sis and death of the parasite. Compounds of this cleas may also interact with other ligned, gated chloride channels, such as those gated by the neurotransmitter gamma-aminobu-

tyric 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 light_and-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 parasite:

PRECAUTIONS

- PRECAUTIONS: S Store at or below 29°C (77F) and protect from light. Excursions permitted to 10Ff 40°C). Use only in well-writilated areas or outdoors. Coac container tightly when not in use. Coac container tightly when hair or fride is wet since reduced efficacy may

- Bit opprimized.
 Ib or parameters was essent wrant har or hele is wet since reduced efficiency may be opprimized.
 Ib or to use when run in sequected to wet cattle writin six hours after treatment.
 I his product is for application takin auface only. Done type cally or parentrality.
 Outgrass may be application takin auface when homesch Poor. For Cattle is store of an auface only. Done type cally or parentrality.
 Antiparatine below 22°F. Allowing to warm at room temperature will restore the normal apparament without affecting frequency.
 Antiparatic activity of inventority will be impaired if the formulation is aggined to ansare of the site with range scale to elso, re, with domestoris or adherent materials, e.g. caled must or manue.

- Internance, ug., casculation of internance. Normachina bean associated with adverse reactions in sensitive dogs; therefore, Ivemectin Pour-On for Cattle is not recommended for use in species other then cattle. Restricted Drug (California) Use only as directed.

When to Treat Cattle with Grubs

Ivermectin Pour. On for Cattle effectively controls all states of cattle multi-Nermectin Pour-On for Cattle diffectively controls all stages of cattle grubs. However, proper timing of treatments in inportant, For the most offective results, cattle should be treated as soon as possible after the end of the heal Hypotentian lareae (cattle grubs) at the period when these grubs are not initial areas may cause underliable host frames transitions. Killing H. Jons's when it is in the vertice cattle and cause grups are grups are grups and Jons's when it is in the vertice cattle and recase staggrups of grups and Jons's when it is in the vertice cattle and recase staggrups of grups prices. Cattle should be treated either before or after these stages of grub

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

Gastrointestinal Roundworms
Ostertagia ostertagi (including inhibited stage)
Haemonchus placei
Trichostrongylus axei
T. colubriformis
Cooperia oncophora
Cooperia punctata
Cooperia sumabada
Strongyloides papillosus
Oesophagostomum radiatum
Inchuringen

Gast Osta Haen Trich T. col Coop Coop

Lungworms Dictyocaulus vivip Cattle Grubs Uwoderma bovis

lineatum ites arcoptes scabiei var. Bovis atum

Sarcouve Linognathus vituli Haematopinus eurystem Damalinia bovis Solenopotes capillatus

Solenopotes capina Horn Flies PERSISTENT ACTIVITY

(adults and L₄) (adults) (adults) (adults and L₄) (parasitic stages)

highir increment. **Applicator Gus Applicator Gus Applicator Gus Bocause of the solution structure** is recommended. Follow the applicator gun manufacturer's directions for priming the gun, adjusting the dose, and care of the applicator gun following use. Weight Dose Weight Dose

220 lb (100 kg)	10 mL	770 lb (350 kg)	35 mL
330 lb (150 kg)	15 mL	880 lb (400 kg)	40 mL
440 lb (200 kg)	20 mL	990 lb (450 kg)	45 mL
550 lb (250 kg)	25 mL	1100 lb (500 kg)	50 mL
660 lb (300 kg)	30 mL		

Do not underdose. Ensure each animal receives a complete dose ba current body weight. Underdosing may result in ineffective treatment encourage the development of parasite resistance.

encourage the services ANIMAL SAFETY Studies conducted in the U.S.A. have demonstrated the safe reemectin. Based on plasma levels, the topically applied for expected to be at least as well loarned by breading animal services of the servic als as is the

tip N measure®

the exact amount

1) MEASURE 2) CHECK

The graduated measuring chamber

of the container has 10 mL, 15 mL,

20 mL and 25 mL graduations.

M

3 ADJUST

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WARNING! NOT FOR USE IN HUMANS

Keep this and all drugs out of the reach of children

4 B

4 POUR

The Safety Data Sheet (SDS) contains more detailed occupational safety infomation. To report adverse effects, obtain an SDS or for assistance, contact First Priority, no.: 1400-0504 0000. The safety of the safe

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

OF IGNITION.

RESIDUE WARNING: Cattle must not be treated within 48 days of slaughter for human consumption. Because a withdrawal time in milk has not been established, do not use in female dairy cattle of breeding age. A withdrawal period has not been established for this product in pre-runinating calves. Do not use in calves to be processed for veal.

OTHER WARNINGS



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

Environmental Safety

Damalinia bovis for 56 days after treatment. TREATMENT OF CATTLE FOR HORN FLIES

Environmental Safety Studies indicate that when invernectin comes in contact with the soil, it readily and tightly binds to the soil and becomes inactive over time. Free invernectin may adversively affect tight and certain aquetic organisms. Do not permit cattle to enter lakes, streams or ponds for at least six hours after treatment. Do not contaminate water by dirict capitalication or by the improper disposal of drug containers. Dispose of containers in an approved landfill or by incinaration. As with other avernectins, lowers dotted in the dung of matad-animals and can inhibit the reproduction and growth or pest and beneficial insects that use dung as a source of food and for reproduction. The magnitude and duration of such effects are spocies and life scycle spocific. When used according to label directions, the product is not expected to have an adverse ingract on opputientions of dung dor pendiut insects.

PERSISTENT ACTIVITY Vermetch Puech To Cattle has been proved to effectively control infections and to protect cattle from n= effection with. *Discipitagotationum radiatum and Distrycaulus* wity/aurou loss 24 days after treatment, *Distraguia Coppering aurotation al Tichostatoroguis* auso fe zr1 days after treatment, *Distraguia Cattago, Haemochus placel*, *Dopreta anosphara au do Doprina sumalizada le n*4 days after treatment;

days after dosing. For best results ivementin Pour-On for Cattle should be part of a parasite control program for both internal and external parasites based on the

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HOW SUPPLIED: Now SOPPLED: Nermectin Pour-On for Cattle is available in 250 mL (8.5 fl oz) and 1 L (33.8 II ozi 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

applicato

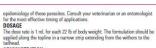
Manufactured for: Durvet Inc. Blue Springs, Missouri 64014 www.durvet.com











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



VERMECTIN POUR-ON FOR CATTLE						
Product Informa	ation					
Product Type		OTC ANIMAL DRUG	Item Code	(Source)	NDC:	30798-927
Route of Administr	ation	TOPICAL				
Active Ingredient/Active Moiety Ingredient Name Basis of Strength Strength						
Ingredient Name IVERMECTIN (UNII: 8883YP2R6D) (IVERMECTIN - UNII:8883YP2R6D)			P2R6D)	IVERMECTIN	Juengui	Strength 5 mg in 1 mL
Packaging						
# Item Code	Packa	age Description	Marketing S	Start Date	Marketi	ng End Date
1 NDC:30798-927-13	12 in 1 CA	SE				
1	250 mL in	1 BOTTLE, PLASTIC				

	Marketing Category	Application Number or Monograpl Citation	n Marketing Start Date	Marketing End Date
Μ	larketing In	formation		
4		5000 mL in 1 BOTTLE, PLASTIC		
4	NDC:30798-927-19	2 in 1 CASE		
3		2500 mL in 1 BOTTLE, PLASTIC		
3	NDC:30798-927-78	4 in 1 CASE		
2		1000 mL in 1 BOTTLE, PLASTIC		
	NDC:30798-927-20	12 in 1 CASE		

Labeler - Durvet (056387798)

Establishment					
Name	Address	ID/FEI	Business Operations		
FIRST PRIORITY INCORPORATED		179925722	manufacture, label		

Revised: 1/2024

Durvet