

**PROMECTIN - ivermectin injection**  
**Vedco, Inc.**

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**ProMectin Injection (ivermectin)**

**for Cattle and Swine**  
**1% Sterile Solution**

**A Parasiticide for the Treatment and Control of Internal and External Parasites of Cattle and Swine**

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

**Introduction**

Ivermectin is an injectable parasiticide for cattle and swine. One low-volume dose effectively treats and controls the following internal and external parasites that may impair the health of cattle and swine: gastrointestinal roundworms (including inhibited *Ostertagia ostertagi* in cattle), lungworms, grubs, sucking lice, and mange mites of cattle; and gastrointestinal roundworms, lungworms, lice, and mange mites in swine.

**Product Description**

Ivermectin is derived from the avermectins, a family of potent, broad-spectrum antiparasitic agents isolated from fermentation of *Streptomyces avermitilis*.

ProMectin (ivermectin) Injection is a clear, ready-to-use, sterile solution containing 1% ivermectin, 40% glycerol formal, and propylene glycol, q.s. ad 100%. ProMectin (ivermectin) Injection is formulated to deliver the recommended dose level of 200 mcg ivermectin/kilogram of body weight in cattle when given subcutaneously at the rate of 1 mL/110 lb (50 kg). In Swine, ProMectin (ivermectin) Injection is formulated to deliver the recommended dose level of 300 mcg ivermectin/kilogram body weight when given subcutaneously in the neck at the rate of 1 mL/75 lbs (33 kg).

**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**

**Cattle:** ProMectin (ivermectin) Injection is indicated for the effective treatment and control of the following harmful species of gastrointestinal roundworms, lungworms, grubs, sucking lice and mange mites in cattle:

## **Gastrointestinal Roundworms**

(adults and fourth-stage larvae):

*Ostertagia ostertagi*

(Including inhibited *O. ostertagi*)

*O. lyrata*

*Haemonchus placei*

*Trichostrongylus axei*

*T. colubriformis*

*Cooperia oncophora*

*C. punctata*

*C. pectinata*

*Oesophagostomum radiatum*

*Bunostomum phlebotomum*

*Nematodirus helvetianus*

(adults only)

*N. spathiger* (adults only)

## **Lungworms**

(adults and fourth-stage larvae):

*Dictyocaulus viviparus*

**Cattle Grubs** (parasitic stages):

*Hypoderma bovis*

*H. lineatum*

**Sucking Lice:**

*Linognathus vituli*

*Haematopinus eurysternus*

*Solenopotes capillatus*

**Mites** (scabies):

*Psoroptes ovis*

(syn. *P. communis* var. *bovis*)

*Sarcoptes scabiei* var. *bovis*

## **Persistent Activity**

ProMectin (ivermectin) Injection has been proved to effectively control infections and to protect cattle from reinfection with *Dictyocaulus viviparus* and *Oesophagostomum radiatum* for 28 days after treatment; *Ostertagia ostertagi*, *Trichostrongylus axei* and *Cooperia punctata* for 21 days after treatment; *Haemonchus placei* and *Cooperia oncophora* for 14 days after treatment.

**Swine:** ProMectin (ivermectin) Injection is indicated for the effective treatment and control of the following harmful species of gastrointestinal roundworms, lungworms, lice and mange mites in swine:

### **Gastrointestinal roundworms**

Large roundworm, *Ascaris suum*

(adults and fourth-stage larvae)

Red stomach worm, *Hyostromylus rubidus*

(adults and fourth-stage larvae)

Nodular worm, *Oesophagostomum spp.*

(adults and fourth-stage larvae)

Threadworm, *Strongyloides ransomi* (adults)

### **Somatic Roundworm Larvae:**

Threadworm, *Strongyloides ransomi* (somatic larvae)

Sows must be treated at least seven days before farrowing to prevent infection in piglets.

### **Lungworm:**

*Metastrongylus spp.* (adults)

**Lice:***Haematopinus suis***Mange Mites:***Sarcoptes scabiei* var. *suis***Dosage**

**Cattle:** IVERMECTIN should be given only by subcutaneous injection under the loose skin in front of or behind the shoulder at the recommended dose level of 200 mcg ivermectin per kilogram of body weight. Each mL of IVERMECTIN contains 10 mg of ivermectin, sufficient to treat 110 lb (50 kg) of body weight (maximum 10 mL per injection site.).

Body Weight (lb)	Dose (mL)
220	2
330	3
440	4
550	5
660	6
770	7
880	8
990	9
1100	10

**Swine:** IVERMECTIN should be given only by subcutaneous injection in the neck of swine at the recommended dose level of 300 mcg ivermectin per kilogram (2.2 lb) of body weight. Each mL of IVERMECTIN contains 10 mg of ivermectin, sufficient to treat 75 lb of body weight.

	Body Weight (lb)	Dose (mL)
Growing Pigs	19	1/4
	38	1/2
	75	1
	150	2
Breeding Animals (Sows, Gilts, and Boars)	225	3
	300	4
	375	5
	450	6

### Administration

**Cattle: ProMectin (ivermectin) Injection is to be given subcutaneously only, to reduce risk of potentially fatal clostridial infection of the injection site.**

Animals should be appropriately restrained to achieve the proper route of administration. Use of a 16-gauge, 1/2 to 3/4" needle is suggested. Inject under the loose skin in front of or behind the shoulder (see illustration). When using the 200 mL, 500 mL size, use only automatic syringe equipment. Use sterile equipment and sanitize the injection site by applying a suitable disinfectant. Clean, properly disinfected needles should be used to reduce the potential for injection site infections. No special handling or protective clothing is necessary.



**Swine:** ProMectin (ivermectin) Injection is to be given subcutaneously in the neck. Animals should be appropriately restrained to achieve the proper route of administration. Use of a 16- or 18-gauge needle is suggested for sows and boars, while an 18- or 20-gauge needle may be appropriate for young animals. Inject under the skin, immediately behind the ear (see illustration). When using the 200 mL, 500 mL size, use only automatic syringe equipment. As with any injection, sterile equipment should be used. The injection site should be cleaned and disinfected with alcohol before injection. The rubber stopper should also be disinfected with alcohol to prevent contamination of the contents. Mild and transient pain reactions may be seen in some swine following subcutaneous administration.

### **Recommended Treatment Program**

**SWINE:** At the time of initiating any parasite control program, it is important to treat all breeding animals in the herd. After the initial treatment, use ProMectin (ivermectin) Injection regularly as follows:

#### **BREEDING ANIMALS**

**Sows:** Treat prior to farrowing, preferably 7-14 days before, to minimize infection of piglets.

**Gilts:** Treat 7-14 days prior to breeding.

Treat 7-14 days prior to farrowing.

**Boars:** Frequency and need for treatment are dependent upon exposure. Treat at least two times a year.

#### **FEEDER PIGS**

##### **(Weaners/Growers/Finishers)**

All weaner/feeder pigs should be treated before placement in clean quarters.

Pigs exposed to contaminated soil or pasture may need retreatment if reinfections occurs.

#### **NOTE:**

(1) ProMectin (ivermectin) Injection has a persistent drug level sufficient to control mite infestations throughout the egg to adult life cycle. However, since the ivermectin effect is not immediate, care must be taken to prevent reinfestation from exposure to untreated animals or contaminated facilities. Generally, pigs should not be moved to clean quarters or exposed to uninfested pigs for approximately one week after treatment. Sows should be treated at least one week before farrowing to minimize transfer of mites to newborn baby pigs.

(2) Louse eggs are unaffected by ProMectin (ivermectin) Injection and may require up to three weeks to hatch. Louse infestations developing from hatching eggs may require retreatment.

(3) Consult a veterinarian for aid in the diagnosis and control of internal and external parasites of swine.

### **Special Minor Use**

**Reindeer:** For the treatment and control of warbles (*Oedemagena tarandi*) in reindeer, inject 200 micrograms ivermectin per kilogram of body weight, subcutaneously. Follow use directions for cattle as described under **ADMINISTRATION**.

**American Bison:** For the treatment and control of grubs (*Hypoderma bovis*) in American bison, inject 200 micrograms ivermectin per kilogram of body weight, subcutaneously. Follow use directions for cattle as described under **ADMINISTRATION**.

**RESIDUE WARNING:** Do not treat reindeer or American bison within 8 weeks (56 days) of slaughter.

### **WARNING**

**Not for use in humans.**

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

The Material Safety Data Sheet (MSDS) contains more detailed occupational safety information. To report adverse effects, obtain a MSDS or for assistance, contact Sparhawk Laboratories, Inc. at 1-800-255-6368.

**RESIDUE WARNING:** Do not treat cattle within 35 days of slaughter. 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-ruminating calves. Do not use in calves to be processed for veal.

Do not treat swine within 18 days of slaughter.

### **Precautions**

Transitory discomfort has been observed in some cattle following subcutaneous administration. A low incidence of soft tissue swelling at the injection site has been observed. These reactions have disappeared without treatment. For cattle, divide doses greater than 10 mL between two injection sites to reduce occasional discomfort or site reaction.

Use sterile equipment and sanitize the injection site by applying a suitable disinfectant. Clean, properly disinfected needles should be used to reduce the potential for injection site infection.

Observe cattle for injection site reactions. Reactions may be due to clostridial infection and should be aggressively treated with appropriate antibiotics. If injection site infections are suspected, consult your veterinarian.

This product is not for intravenous or intramuscular use.

Protect product from light.

ProMectin (ivermectin) Injection for Cattle and Swine has been developed specifically for use in cattle, swine, reindeer and American bison **only**. This product should not be used in other animal species as

severe adverse reactions, including fatalities in dogs may result.

### **When to Treat Cattle with Grubs**

IVERMECTIN effectively controls all stages of cattle grubs. However, proper timing of treatment is important. For most effective results, cattle should be treated as soon as possible after the end of the heel fly (warble fly) season. Destruction of *Hypoderma* larvae (cattle grubs) at the period when these grubs are in vital areas may cause undesirable host-parasite reactions including the possibility of fatalities. Killing *Hypoderma lineatum* when it is in the tissue surrounding the esophagus (gullet) may cause salivation and bloat.; Killing *H. bovis* when it is in the vertebral canal may cause staggering or paralysis. These reactions are not specific to treatment with a IVERMECTIN, but can occur with any successful treatment of grubs. Cattle should be treated either before or after these stages of grub development. Consult your veterinarian concerning the proper time for treatment. Cattle treated with IVERMECTIN after the end of the heel fly season may be retreated with IVERMECTIN during the winter for internal parasites, mange mites, or sucking lice without danger of grub-related reactions. A planned parasite control program is recommended.

### **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 water-borne organisms on which they feed. Do not permit water runoff from feedlots or production sites to enter lakes, streams, or ponds. 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 lifestyle 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**

50 mL, 200 mL, 500 mL

Store at 20-25°C.

Restricted Drug (California) - use only as directed.

### **Distributed by:**

**VEDCO, Inc.**

**St. Joseph, MO 64507**

### **Manufactured by:**

**Sparhawk Laboratories, Inc.**

**Lenexa, KS 66215 US**

ANADA 200-429, Approved by FDA

OPEN HERE

**INDICATIONS**

For the treatment and control of gastrointestinal roundworms, lungworms, lice, and mange mites. See package insert for complete indications, precautions, warnings, residue warning, and use directions.

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

**RECOMMENDED DOSE**

**Cattle:** 1 mL per 110 lb body weight.  
**Swine:** 1 mL per 75 lb body weight.

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



TAKE TIME OBSERVE LABEL DIRECTIONS

ProMectin® is a registered trademark of VEDCO, Inc.

LOT NO.: EXP. DATE:

NDC 50989-157-34

**ProMectin®  
Injection  
for Cattle and Swine  
1% Sterile Solution  
(ivermectin)**



ANADA 200-429, Approved by FDA  
Net Contents: 200 mL

**VEDCO**

**WARNING**

**Not for use in humans.  
Keep this and all drugs out of the reach of children.**

**RESIDUE WARNING:** Do not treat cattle within 35 days of slaughter. 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-ruminating calves. Do not use in calves to be processed for veal. Do not treat swine within 18 days of slaughter.

**PRECAUTIONS:** For subcutaneous injection in cattle and swine only. Use automatic syringe equipment only. Protect product from light.

Restricted Drug (California) - use only as directed.  
Store at 20-25°C.

Distributed by  
VEDCO Inc.  
St. Joseph, MO 64507

Manufactured by  
Sparhawk Laboratories, Inc.  
Lenexa, KS 66215 USA

I-3468-07  
VINV-PROI-0002

Rev. 11-12

treated either before or after these stages of grub development. Consult your veterinarian concerning the proper time for treatment. Cattle treated with IVERMECTIN after the end of the heel fly season may be retreated with IVERMECTIN during the winter for internal parasites, mange mites, or scabies, but without danger of grub-related reactions. A planned parasite control program is recommended.

**Environmental Safety**  
Studies indicate that when ivermectin comes in contact with the soil, it readily and lightly binds to the soil and becomes inactive over time. Free ivermectin may adversely affect fish and certain water-borne organisms on which they feed. Do not permit water runoff from feedlots or production sites to enter lakes, streams, or ponds. 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:** 30 mL, 200 mL, 500 mL.  
Store at 20-25°C.  
Restricted Drug (California) - use only as directed.

Sparhawk Laboratories, Inc.  
Lenexa, KS 66215, U.S.A.  
ANADA 200-429, Approved by F.D.A.

**WARNING**  
**Not for use in humans.  
Keep this and all drugs out of the reach of children.**

**RESIDUE WARNING:** Do not treat cattle within 35 days of slaughter. 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-ruminating calves. Do not use in calves to be processed for veal. Do not treat swine within 18 days of slaughter.

**PRECAUTIONS:** For subcutaneous injection in cattle and swine only. Use automatic syringe equipment only. Protect product from light.

Restricted Drug (California) - use only as directed.  
Store at 20-25°C.

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St. Joseph, MO 64507

Manufactured by  
Sparhawk Laboratories, Inc.  
Lenexa, KS 66215 USA

I-3468-07  
VINV-PROI-0002

ANADA 200-429, Approved by FDA

**ProMectin® Injection  
(ivermectin)  
for Cattle and Swine  
1% Sterile Solution**

**A Parasiticide for the Treatment and Control of Internal and External Parasites of Cattle and Swine**

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

**Introduction**  
Ivermectin is an injectable parasiticide for cattle and swine. One low-volume dose effectively treats and controls the following internal and external parasites that may impair the health of cattle and swine: gastrointestinal roundworms (including inhibited *Dicrocoelium ostentii* in cattle), lungworms, grub, sucking lice, and mange mites of cattle and gastrointestinal roundworms, lungworms, lice, and mange mites of swine.

**Product Description**  
Ivermectin is derived from the avermectins, a family of potent, broad-spectrum antiparasitic agents isolated from fermentation of *Streptomyces avermectin*.  
ProMectin® (ivermectin) injection is a clear, ready-to-use, sterile solution containing 1% ivermectin, 40% glycerol formal, and propylene glycol, q.s. ad 100%. ProMectin® (ivermectin) injection is formulated to deliver the recommended dose level of 200 mcg ivermectin/kilogram of body weight in cattle when given subcutaneously at the rate of 1 mL/110 lb (50 kg). In Swine, ProMectin® (ivermectin) injection is formulated to deliver the recommended dose level of 300 mcg ivermectin/kilogram body weight when given subcutaneously in the neck at the rate of 1 mL/75 lb (33 kg).

**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**  
Cattle: ProMectin® (ivermectin) injection is indicated for the effective treatment and control of the following harmful species of gastrointestinal roundworms, lungworms, grubs, sucking lice and mange mites in cattle:  
**Gastrointestinal Roundworms** (adults and fourth-stage larvae):  
*Ostertagia ostentii* (including inhibited *O. ostentii*)  
*Hypoderma bovis*  
*H. lineatum*  
*Dicrocoelium sp.*  
*Dicrocoelium sp.*  
*Colubriformis*  
*Copreia oecophora*  
*C. punctata*  
*C. punctata*  
*Desophogonum radiatum*  
*Bunostomum phlebotomum*  
*Haemonchus contortus* (adults only)  
*N. spathiger* (adults only)

**Lungworms** (adults and fourth-stage larvae):  
*Dicrocoelium sp.*  
**Cattle Grubs** (larval stages):  
*Hypoderma bovis*  
*H. lineatum*  
**Sucking Lice:**  
*Licthynotus eurysternus*  
*Haematopinus eurysternus*  
*Solenopotes capillatus*  
**Mange** (scabies):  
*Psoroptes ovis*  
(*ym. P. communis* var. *bovis*)  
*Sarcoptes scabiei* var. *bovis*

**Persistent Activity**  
ProMectin® (ivermectin) Injection has been proved to effectively control infections and to protect cattle from reinfection with *Dicrocoelium viviparum* and *Desophogonum radiatum* for 28 days after treatment. *Ostertagia ostentii*, *Trichostrongylus axei* and *Copreia punctata* for 21 days after treatment. *Haemonchus contortus* and *Copreia oecophora* for 14 days after treatment.

**Swine:** ProMectin® (ivermectin) Injection is indicated for the effective treatment and control of the following harmful species of gastrointestinal roundworms, lungworms, lice and mange mites in swine:

**Gastrointestinal Roundworms**  
Large roundworm, *Ascaris suum* (adults and fourth-stage larvae)  
Red stomach worm, *Hyostomylus rubidus* (adults and fourth-stage larvae)  
Nodular worm, *Desophogonum spp.* (adults and fourth-stage larvae)  
Threadworm, *Strongylus ransomi* (adults)

**Somatic Roundworm Larvae:**  
Threadworm, *Strongylus ransomi* (somatic larval)

**Lungworms:**  
*Bunostomum phlebotomum* (adults)

**Lice:**  
*Haematopinus suis*

**Mange Mites:**  
*Sarcoptes scabiei* var. *suis*

Drug	Body Weight (kg)	Dose (mL)
Cattle	200	1
Swine	75	1
Swine	150	2
Swine	300	4
Swine	450	6

recommended dose level of 200 mcg ivermectin per kilogram of body weight. Each mL of IVERMECTIN contains 10 mg of ivermectin, sufficient to treat 110 lb (50 kg) of body weight (maximum 10 mL per injection site).

Body Weight (kg)	Dose (mL)
200	1
300	1.5
400	2
500	2.5
600	3
750	3.75
900	4.5
1100	5.5

**Administration**  
Cattle: ProMectin® (ivermectin) Injection is to be given subcutaneously only, to reduce risk of potentially fatal clostridial infection of the injection site. Animals should be appropriately restrained to achieve the proper route of administration. Use of a 18-gauge, 1 1/2 to 3 1/4" needle is suggested. Inject under the loose skin in front of or behind the shoulder (see illustration).  
When using the 200 mL, 500 mL size, use only automatic syringe equipment. Use sterile equipment and sanitize the injection site by applying a suitable disinfectant. Clean, properly disinfected needles should be used to reduce the potential for injection site infections. No special handling or protective clothing is necessary.  
Swine: ProMectin® (ivermectin) Injection is to be given subcutaneously in the neck. Animals should be appropriately restrained to achieve the proper route of administration. Use of a

16- or 18-gauge needle is suggested for sows and boars, while an 18- or 20-gauge needle may be appropriate for young animals. Inject under the skin, immediately behind the ear (see illustration). When using the 200 mL, 500 mL size, use only automatic syringe equipment. At all other injections, sterile equipment should be used. The injection site should be cleaned and disinfected with alcohol before injection. The rubber stopper should also be disinfected with alcohol to prevent contamination of the contents. Mild and transient pain reactions may be seen in some swine following subcutaneous administration.

**Recommended Treatment Program**  
SWINE: At the time of initiating any parasite control program, it is important to treat all breeding animals in the herd. After the initial treatment, use ProMectin® (ivermectin) Injection regularly as follows:

**BREEDING ANIMALS:**  
Sows: Treat prior to farrowing, preferably 7-14 days before, to minimize infection of piglets.  
Gils: Treat 7-14 days prior to farrowing.  
Boars: Frequency and need for treatment are dependent upon exposure.  
Treat at least two times a year.

**FEEDER PIGS**  
**(Weaners/Weaners/Finishes)**  
All weaners/feeder pigs should be treated before placement in clean quarters.  
Pigs exposed to contaminated soil or pasture may need retreatment if reinfection occurs.

**NOTE:**  
(1) ProMectin® (ivermectin) Injection has a persistent drug level sufficient to control mite infestations throughout the life of adult life cycle. However, since the ivermectin effect is not immediate, care must be taken to prevent reinfestation from exposure to untreated animals or contaminated facilities. Generally, pigs should not be moved to clean quarters or exposed to uninfested pigs for approximately one week after treatment. Sows should be treated at least one week before farrowing to minimize transfer of mites to newborn baby pigs.

(2) Louse eggs are unaffected by ProMectin® (ivermectin) Injection and may require up to three weeks to hatch. Louse infestations developing from hatching eggs may require retreatment.  
(3) Consult a veterinarian for aid in the diagnosis and control of internal and external parasites of swine.

**Refriger:** For the treatment and control of warbles (*Udemegeton tanaxilli* in reindeer, inject 200 micrograms ivermectin per kilogram of body weight, subcutaneously. Follow use directions for cattle as described under ADMINISTRATION.

**American Bison:** For the treatment and control of grubs (*Hypoderma bovis*) in American bison, inject 200 micrograms ivermectin per kilogram of body weight, subcutaneously. Follow use directions for cattle as described under ADMINISTRATION.

**RESIDUE WARNING:** Do not treat reindeer or American bison within 8 weeks (56 days) of slaughter.

**WARNING**  
**Not for use in humans.**  
Keep this and all drugs out of the reach of children.

The Material Safety Data Sheet (MSDS) contains more detailed occupational safety information. To report adverse effects, obtain a MSDS or for assistance, contact Sparhawk Laboratories, Inc. at 1-800-255-0506.

**RESIDUE WARNING:** Do not treat cattle within 35 days of slaughter. 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-ruminating calves. Do not use in calves to be processed for veal.  
Do not treat swine within 18 days of slaughter.

**Precautions**  
Transitory discomfort has been observed in some cattle following subcutaneous administration. A low incidence of soft tissue swelling at the injection site has been observed. These reactions have disappeared without treatment. For cattle, divide doses greater than 10 mL between two injection sites to reduce occasional discomfort or site reaction.

Use sterile equipment and sanitize the injection site by applying a suitable disinfectant. Clean, properly disinfected needles should be used to reduce the potential for injection site infections.

Observe cattle for injection site reactions. Reactions may be due to clostridial infection and should be aggressively treated with appropriate antibiotics. If injection site reactions are suspected, consult your veterinarian.

This product is not for intravenous or intramuscular use. Protect product from light.

ProMectin® (ivermectin) Injection for Cattle and Swine has been developed specifically for use in cattle, swine, reindeer and American bison only. This product should not be used in other animal species as severe adverse reactions, including fatalities in dogs, may result.

**When to Treat Cattle with Grubs**  
IVERMECTIN effectively controls all stages of cattle grubs. However, proper timing of treatment is important. For most effective results, cattle should be treated as soon as possible after the end of the heel fly (warble fly) season. Destruction of the pupal stage of the grub is essential. Killing *Hypoderma lineatum* when it is in the tissue surrounding the esophagus (larval) may cause salivation and block killing *H. bovis* when it is in the ventral canal may cause staggers or paralysis. These reactions are not specific to treatment of IVERMECTIN, but can occur with any successful treatment of grubs. Cattle should be

**PROMECTIN**  
ivermectin injection

**Product Information**

<b>Product Type</b>	OTC ANIMAL DRUG	<b>Item Code (Source)</b>	NDC:50989-157	
<b>Route of Administration</b>	SUBCUTANEOUS			
<b>Active Ingredient/Active Moiety</b>				
<b>Ingredient Name</b>		<b>Basis of Strength</b>	<b>Strength</b>	
IVERMECTIN (UNII: 8883YP2R6D) (IVERMECTIN - UNII:8883YP2R6D)		IVERMECTIN	10 mg in 1 mL	
<b>Packaging</b>				
<b>#</b>	<b>Item Code</b>	<b>Package Description</b>	<b>Marketing Start Date</b>	<b>Marketing End Date</b>
1	NDC:50989-157-11	50 mL in 1 VIAL		
2	NDC:50989-157-34	200 mL in 1 VIAL		
3	NDC:50989-157-16	500 mL in 1 VIAL		
<b>Marketing Information</b>				
<b>Marketing Category</b>	<b>Application Number or Monograph Citation</b>	<b>Marketing Start Date</b>	<b>Marketing End Date</b>	
ANADA	ANADA200429	07/08/2010		

**Labeler** - Vedco, Inc. (021634266)

Revised: 1/2013

Vedco, Inc.