



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

JAN 14 2004

Boehringer Ingelheim Vetmedica, Inc.  
c/o Mr. Fred T. Smith  
SciReg, Inc.  
12733 Director's Loop  
Woodbridge, VA 22192

Subject: Amendment Adding Pour-on Instructions for Livestock; and Revised  
Confidential Statements of Formula  
Permethrin WS  
EPA Registration Number: 4691-123  
Your Resubmission Dated October 30, 2003, as Amended January 14, 2004

Dear Mr. Smith:

**I. Revised Basic and Alternate Confidential Statements of Formula:**

The revised Basic and Alternate Formulation Confidential Statements of Formula (CSFs), referred to above and submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, are acceptable. Copies of the CSFs have been placed in the file for the subject product. These CSFs (Basic Formulation, dated 1/14/04; Alternate Formulation "a", dated 1/14/04; Alternate Formulation "b", dated 10/29/03; Alternate Formulation "c", dated 10/29/03; Alternate Formulation "d", dated 1/14/04; and Alternate Formulation "e", dated 1/14/04) supersede all previously submitted CSFs for this product.

**II. Label Amendment Adding Pour-On Instructions for Livestock:**

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable. A stamped copy of the label is enclosed for your records. Please submit two copies of your final printed labeling before you release the product for shipment.

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If you have any questions regarding this action, please contact Susan Stanton of my team at (703) 305-5218.

Sincerely,

A handwritten signature in cursive script that reads "Susan L. Stanton, for".

George T. LaRocca  
Product Manager 13  
Insecticide Branch  
Registration Division (7505C)

Enclosure

**DRAFT LABEL  
FRONT PANEL**

BI/LOGO

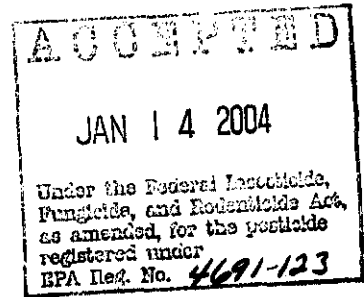
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**PERMECTRIN WS  
A WATER BASE, SYNERGIZED, CONCENTRATE INSECTICIDE WITH UP TO 30 DAYS RESIDUAL  
EFFECTS ON INANIMATE SURFACES**

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FOR AGRICULTURAL USE ONLY. NOT FOR HOUSEHOLD USE.

- °Broad Spectrum Insecticide/Acaracide
- °Synergized
- °Quick Knockdown
- °For Control of Insect Pests on Livestock, Poultry and Farm Premises
- °For Control of Insect Pests on Horses
- For Control of Ticks Including Deer Ticks (carrier of Lyme Disease)
- °Pleasant Citrus Scent
- °Water Based



**ACTIVE INGREDIENTS:**

Permethrin (CAS # 52645-53-1).....	8.50%
Piperonyl Butoxide Technical (CAS # 51-03-6).....	4.25%
<b>OTHER INGREDIENTS:</b> .....	<u>87.25%</u>
	<b>TOTAL 100.00%</b>

Contains 80.4 g permethrin and 40.2 g piperonyl butoxide technical per quart.

DO NOT FREEZE  
SHAKE WELL BEFORE USE

**KEEP OUT OF THE REACH OF CHILDREN  
CAUTION  
SEE SIDE/BACK PANEL FOR  
ADDITIONAL PRECAUTIONARY STATEMENTS**

Net Contents: 1 U.S. Quart (946ml)

CODE: \_ \_ \_ \_ - \_ \_ \_ \_

Bar Code Area

**DRAFT LABEL  
SIDE/BACK PANEL**

**PERMECTRIN WS**

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
CAUTION**

Causes moderate eye irritation. Harmful if swallowed or absorbed through the skin. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse. When applying indoors as a space spray or fog wear a respirator with an organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any N, R, P, or HE prefilter.

<b>FIRST AID</b>	
If swallowed	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
If in eyes	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If on skin or clothing	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If inhaled	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>HOT LINE NUMBER</b>	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-821-7467 for emergency medical treatment information.	

**ENVIRONMENTAL HAZARDS**

This pesticide is highly toxic to fish. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

**PHYSICAL OR CHEMICAL HAZARDS**

Do not use this product in or on electrical equipment due to the possibility of shock hazard.

**DRAFT LABEL  
SIDE/BACK PANEL**

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**PERMECTRIN WS**

**INDICATIONS**

For use on Horses, Beef and Dairy Cattle, Swine, Sheep, Goats, Poultry, and their premises to Kill Flies, Fleas, Lice, Imported Fire Ants, Mites, and Ticks including Deer Ticks (carrier of Lyme Disease). Aids in Control of Cockroaches, Mosquitoes, Spiders and Crickets.

**BUYER GUIDE:** The following statements are made as a general guide to quantity of pesticide required for various applications. See Chart on inside of back panel for complete directions on dilution and use.

**Premise Use as a Spray or Fog:** Mix 1 qt. in 25 gal. of water to make a ready-to-use spray.

**Livestock Use:** Mix 1 qt. in 100 gal. of water to treat up to 400 animals.

**Poultry Use:** Mix 1 qt. in 50 gal. of water to treat up to 5,000 birds.

**Horse Use:** Mix 1.5 fl. oz. (45 mL) in 2 gal. of water for ready-to-use spray.

CONVERSION EQUIVALENTS: 1 fl. oz. = 30 mL = 2 tablespoons = 6 teaspoons

**DIRECTION FOR USE**

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

**SHAKE WELL BEFORE USE.**

Add the required amount of concentrate to water and blend thoroughly. Do not hold dilutions for more than 24 hours.

Mix **PERMECTRIN WS** and apply the use-diluted material to animals and pest breeding or resting surfaces at the rates shown on accompanying chart. These dilutions and rates will provide most efficient pest control under conditions of heavy pressure when good contact is achieved. Timing and frequency of application should be based on pest populations reaching nuisance levels, but accompanying manure removal and sanitation practices should precede sprays.

Do not spray feed, food or water. Retreat as needed, but not more often than once every two weeks. Wash udders thoroughly before milking. Do not use on sick, or debilitated animals.

## DRAFT LABEL - SIDE/BACK PANEL

## PERMECTRIN WS - DIRECTIONS FOR USE (CONT'D)

**PESTS ON LIVESTOCK:** BEEF CATTLE, LACTATING AND NON-LACTATING DAIRY CATTLE, SHEEP, GOATS AND SWINE

NOTE: For Swine allow 5 days between last treatment and slaughter

PESTS	DILUTIONS FOR USE	HOW TO APPLY
Horn Flies, Face Flies, Stable Flies, House Flies, Lesser House Flies, Horse Flies, Deer Flies, Black Flies, Mosquitoes, Eye Gnats, Blow Flies, Psoroptic (scabies) mites, Lice, Ticks including Deer Ticks (carrier of Lyme Disease), and Sheep Keds	Mix 1 part concentrate in 400 parts water (1 qt. in 100 gal. or 10 mL in 1 gal.). For severe infestations or for longer residual control, mix 1 part concentrate in 132 parts water [1 qt. in 33 gal. or 4 fl. oz. (120 mL) in 1 gal.].	<b>High Pressure Spray:</b> Spray to thoroughly wet entire animal (1-2 qts. per animal). For lice and mites, a second treatment is recommended in 14 days.
Horn Flies, Face Flies, Ear Ticks and Lice	Mix 7 fl. oz. (210 mL) in 1 gal. water.	<b>Low Pressure Spray:</b> For flies and lice, apply 4-5 fl. oz. (120-150 mL) along midline from face to tailhead. For ear ticks, spray directly onto each ear (1/2 fl. oz. per ear).
Horn Flies, Face Flies, Stable Flies, House Flies, Lesser House Flies, Horse Flies, Deer Flies, Black Flies, Mosquitoes, Eye Gnats, Blow Flies, Psoroptic (scabies) mites, Lice, Ticks including Deer Ticks (carrier of Lyme Disease), and Sheep Keds	Mix 1 part concentrate in 48 parts water (1 qt. in 12½ gal. or 4 oz. in 1½ gal. or 80 mL in 1 gal.).	<b>Pour-on:</b> Apply up to 4 oz. of dilution down midline of back. Repeat application in 14 days if necessary.

CONVERSION EQUIVALENTS: 1 fl. oz. = 30 mL = 2 Tablespoons = 6 teaspoons

**PESTS ON POULTRY:**

PESTS	DILUTIONS FOR USE	HOW TO APPLY
Chicken Mite, Northern Fowl Mite, Chiggers, Lice and Bed Bugs	Mix 1 part concentrate in 200 parts water (1 qt. in 50 gal. or 19 mL in 1 gal.) For severe infestation or for longer residual control, mix 1 part concentrate in 100 parts water (1 qt. to 25 gal. or 38 mL in 1 gal.).	<b>High Pressure Spray:</b> Spray 1 gal. of coarse spray per 100 birds paying particular attention to vent area.

CONVERSION EQUIVALENTS: 1 fl. oz. = 30 mL = 2 Tablespoons = 6 teaspoons

## DRAFT LABEL - SIDE/BACK PANEL

## PERMECTRIN WS - DIRECTIONS FOR USE (CONT'D)

**PESTS ON FARM PREMISES:** Barns, Loafing Sheds, Milking Parlors, Feed Lots, Stables, Paddocks, Poultry and Livestock Housing, Animal Hospitals and Outside Meat Processing Premises.

PESTS	DILUTIONS FOR USE	HOW TO APPLY
House Flies, Stable Flies, Lesser House Flies, other Manure Breeding Flies, Bed Bugs, Chicken Mites, Fleas, Mealworms, Lice, Mites, Ticks including Deer Ticks (carrier of Lyme Disease). Aids in control of Cockroaches, Ants, Spiders, Mosquitoes, Crickets, and Face Flies.	Mix 1 part concentrate in 100 parts water (1 qt. in 25 gal. or 38 mL in 1 gal.). For severe infestation or for longer residual control, mix 1 part concentrate in 33 parts water (1 qt. in 8-1/3 gal. or 115 mL in 1 gal.) The use of the higher concentration is recommended on painted wood surfaces.	<b><u>SURFACE SPRAY:</u></b> Spray all surfaces thoroughly with diluted emulsion using 1 gal. per 750-1000 square feet, but do not let runoff occur.
	In mist blower or power fogger (non-thermal) mix 1 part concentrate in 20 parts water (1 qt. in 5 gal. or 189 mL in 1 gal).	<b><u>INDOOR SPACE SPRAY:</u></b> Apply as fog or fine mist until area is filled with mist, using 2 fl. oz. (60 mL) per 1000 cubic ft. (Can be used in Milk Rooms).
		<b><u>OUTDOOR SPACE SPRAY:</u></b> Fill area with mist. Apply while the air is still.
CONVERSION EQUIVALENTS: 1 fl. oz. = 30 mL = 2 Tablespoons = 6 Teaspoons		
DO NOT APPLY DILUTIONS FOR PREMISE TREATMENT DIRECTLY TO LIVESTOCK OR POULTRY. ENSURE THAT FEED AND WATER ARE NOT CONTAMINATED BY SPRAY DRIFT. FOR SPACE SPRAYING DO NOT REMAIN IN TREATED AREAS AND VENTILATE THE AREA BEFORE REOCCUPYING. REMOVE ANIMALS PRIOR TO TREATMENT. THE USE OF ANY RESIDUAL FLY SPRAY SHOULD BE SUPPLEMENTED WITH PROPER MANURE MANAGEMENT AND GENERAL SANITATION TO ELIMINATE FLY BREEDING SITES.		
Fleas and Ticks on other outdoor Farm Premises.	Mix 3 fl. oz. (90mL) concentrate in 8 gal. water or 11 mL in 1 gal. water.	<b><u>OUTDOOR PREMISE SPRAY:</u></b> Use enough finished spray to penetrate foliage, usually 50-100 gal. per acre. To prevent infestation of buildings, treat a band of vegetation 6-10 feet adjacent to the structure.

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**DRAFT LABEL - SIDE/BACK PANEL**


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**PERMECTRIN WS - DIRECTIONS FOR USE (CONT'D)**


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**PESTS ON FARM PREMISES (CONT'D):** Barns, Loafing Sheds, Milking Parlors, Feed Lots, Stables, Paddocks, Poultry and Livestock Housing, Animal Hospitals and Outside Meat Processing Premises.

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PESTS	DILUTIONS FOR USE	HOW TO APPLY
Imported Fire Ants	Mix 14 fl. oz. (420mL) in 1 gal. water.	<b><u>SPRINKLER CAN:</u></b> Gently sprinkle one gal. over the surface of each mound. Thoroughly wet mound and surrounding area to a 4 ft. diameter. For best results, apply in cool weather 65-85° (early morning or late evening). Pressurized sprayers may disturb ants and cause migration, reducing product effectiveness.

CONVERSION EQUIVALENTS: 1 fl. oz. = 30 mL = 2 Tablespoons = 6 Teaspoons

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**PESTS ON HORSES:**


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PESTS	DILUTIONS FOR USE	HOW TO APPLY
Horse Flies, Deer Flies, Stable Flies, House Flies, Horn Flies, Face Flies, Black Flies, Mosquitoes, Eye Gnats, Mange Mites, Lice and Ticks.	Mix 1.5 fl. oz. (45 mL) concentrate in 2 gal. water <u>or</u> 23 mL in 1 gal. water.	<b><u>SPRAY OR SPONGE ON:</u></b> Thoroughly wet animal to skin with spray or sponge.
	Mix 7 fl. oz. (210 mL) concentrate in 3 qts. water <u>or</u> 70 mL in 1 qt. water.	<b><u>LOW PRESSURE SPRAY OR WIPE ON</u></b> Spray or wipe on 1-2 fl. oz. per animal. Pay particular attention to treat back, face, legs, and ears.



DRAFT LABEL - SIDE/BACK PANEL

PERMECTRIN WS - DIRECTIONS FOR USE (CONT'D)

**PESTS ON EQUINE PREMISES:** Barns, Stables, Paddocks, and Animal Hospitals.

PESTS	DILUTIONS FOR USE	HOW TO APPLY
House Flies, Stable Flies, Lesser House Flies, other Manure breeding Flies, Bed Bugs, Chicken Mites, Fleas, Mealworms, Lice, Mites, Ticks (including Deer Ticks, Carrier of Lyme Disease). Aids in control Of Cockroaches, Ants, Spiders, Mosquitoes, Crickets, and Face Flies.	Mix 1 part concentrate in 100 parts water (1 qt. in 25 gal. or 38 mL in 1 gal.). For severe infestation or for longer residual control, mix 1 part concentrate in 33 parts water (1 qt. in 8-1/3 gal. or 115 mL in 1 gal.)  In mist blower or power fogger (non-thermal mix 1 part concentrate in 20 parts water (1 qt. in 5 gal. or 189 mL in 1 gal.)	<b><u>SURFACE SPRAY:</u></b> Spray all surfaces thoroughly with diluted emulsion using 1 gal. per 750 – 1000 square feet, but do not let runoff occur.  <b><u>INDOOR SPACE SPRAY:</u></b> Apply as fog or fine mist until area is filled with mist, using 2 fl. oz. (60 mL) per 1000 cubic ft.  <b><u>OUTDOOR SPACE SPRAY:</u></b> Fill area with mist. Apply while the air is still.

CONVERSION EQUIVALENTS: 1 fl. oz. = 30 mL = 2 Tablespoons = 6 Teaspoons

DO NOT APPLY DILUTIONS FOR **PREMISE TREATMENT** DIRECTLY TO HORSES. ENSURE THAT FEED AND WATER ARE NOT CONTAMINATED BY SPRAY DRIFT. FOR **SPACE SPRAYING** DO NOT REMAIN IN TREATED AREAS AND VENTILATE THE AREA BEFORE REOCCUPYING. REMOVE ANIMALS PRIOR TO TREATMENT. THE USE OF ANY RESIDUAL FLY SPRAY SHOULD BE SUPPLEMENTED WITH PROPER MANURE MANAGEMENT AND GENERAL SANITATION TO ELIMINATE FLY BREEDING SITES.

**DRAFT LABEL  
SIDE/BACK PANEL**

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**PERMECTRIN WS**

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal. **KEEP CONTAINER SEALED WHEN NOT IN USE. PROTECT FROM FREEZING.**

**Pesticide Storage:** Store upright at room temperature. Avoid exposure to extreme temperatures.

**Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**Container Disposal:** Do not reuse empty container. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**WARRANTY AND LIMITATION OF DAMAGES**

Seller warrants that this material conforms to its chemical description and is reasonable fit for the purposes stated on the label when used in accordance with directions under normal conditions of use and buyer assumes the risk of any use contrary to such directions. Seller makes no other express or implied warranty, including any other express or implied warranty of Fitness or of Merchantability, and no agent of Seller is authorized to do so except in writing and with specific reference to this warranty. In no event shall Seller's liability for any breach of warranty exceed the purchase price of the material as to which a claim is made.

EPA Reg. No.: 4691-123

EPA Est. No.: 4691-KS-01

Manufactured by:  
Boehringer Ingelheim Vetmedica, Inc.  
2621 North Belt Highway  
St. Joseph, MO 64506-2002  
1-800-821-7467