



OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

November 20, 2025

Pete Stevenson
Senior Regulatory Consultant
Sagentia Regulatory for
Intervet Inc. d/b/a Merck Animal Health
2 Giralda Farms
Madison, New Jersey 07941

Subject: Label Amendment - Registration Review Mitigation for Permethrin
Product Name: 5% Permethrin Pour-On
EPA Registration Number: 773-82
Application Date: 3/29/2021
Case Number: 674861

Dear Pete Stevenson:

The Agency, in accordance with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the Permethrin Interim Decision, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide, Fungicide, and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling and must be used at your next label printing. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 12 months from the date of this letter. After 12 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

If you have any questions about this letter, please contact Kent Fothergill via email at fothergill.kent@epa.gov.

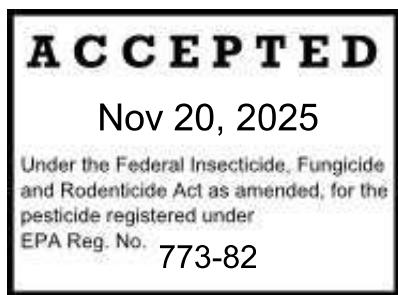
Sincerely,

A handwritten signature in blue ink that reads "Dana L. Friedman". The signature is fluid and cursive, with the first name "Dana" being more prominent.

Dana L. Friedman, Chief
Risk Management and Implementation Branch 1
Pesticide Re-Evaluation Division
Office of Pesticide Programs
U.S. Environmental Protection Agency

ENCLOSURE: Stamped label

(Note to Reviewer: [bracketed text] is optional or alternate wording; (parenthetical text) is informational.)



Permethrin	GROUP	3A	INSECTICIDE
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(MASTER LABEL)

5% PERMETHRIN POUR-ON

(Alternate Brand Names: BOSS®, BOSS® Pour-On Insecticide)

Pour-On Insecticide For Beef & Dairy Cattle & Sheep

Controls Flies and Lice on Cattle
[Season-Long Lice Control[†] with One Application]
[[†]Season-long lice control from January-April]
[Controls Keds and Lice on Sheep]
[Squeeze 'N' Measure Bottle]
[May be used with Automatic Dosing System]

ACTIVE INGREDIENTS:

Permethrin: 3-(phenoxyphenyl)methyl (±) cis, trans-3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate* 5.0%

INERT INGREDIENTS** 95.0%

TOTAL 100.0%

*cis/trans ratio: Min. 35% (±) cis and max 65% (±) trans

**Contains petroleum distillates.

KEEP OUT OF REACH OF CHILDREN
CAUTION

See [back] [other] [side] [panel] for [additional] precautionary statements

(Note to reviewer: the following reference statement for small container sizes):

[See additional precautionary statements and directions for use inside booklet]

[Manufactured [by][for]:]
Intervet, Inc. (d/b/a Merck Animal Health)
[a subsidiary of Merck & Co., Inc.]
126 E. Lincoln Ave
Rahway, NJ 07065

EPA Reg. No. 773-82
EPA Est. No. XXX

Net Contents: [One U.S. Gallon (3.785 L)]
[One U.S. Quart (0.946 L)]

5% PERMETHRIN POUR-ON; EPA Reg. No. 773-82

MASTER LABEL – dated March 25, 2021

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(Note to Reviewer: [bracketed text] is optional or alternate wording; (parenthetical text) is informational.)

[UPC Code] [Copyright XXXX] [All rights reserved.] [Rev. XXX]

[Lot/Batch No.] (Note to reviewer: the lot or batch number may also be stamped directly on the product container.)

FIRST AID	
IF ON SKIN OR CLOTHING	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
IF SWALLOWED	Call poison control center or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact the Rocky Mountain Poison Center at 1-303-595-4869 for emergency medical treatment information.	
Note to Physician: Contains petroleum distillates. Vomiting may cause aspiration pneumonia.	

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals: **CAUTION:** Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing. Wear long sleeved shirt, long pants, shoes and socks, and chemical resistant gloves such as barrier laminate, nitrile or neoprene rubber, or viton. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

USER SAFETY RECOMMENDATIONS

User should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. User should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to aquatic organisms, including fish and invertebrates. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters, or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area.

This product is highly toxic to bees and other pollinating insects exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees and other pollinating insects are foraging the treatment area.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. **READY TO USE** – No dilution necessary. For both indoor and outdoor use.

For resistance management, 5% PERMETHRIN POUR-ON, contains a Group 3A insecticide. Any

5% PERMETHRIN POUR-ON; EPA Reg. No. 773-82

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insect population may contain individuals naturally resistant to 5% PERMETHRIN POUR-ON and other Group 3A insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly. Appropriate resistance-management strategies should be followed.

To delay insecticide/acaricide resistance, take the following steps:

Rotate the use of 5% PERMETHRIN POUR-ON or other Group 3A insecticides with different groups that control the same pests.

Adopt an integrated pest management program for insecticide use that includes inspection of animals and/or premises, uses historical information related to pesticide use, record keeping, and which considers cultural, biological and other chemical control practices.

Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor. Contact your local extension specialist for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.

For further information or to report suspected resistance contact Intervet, Inc. (d/b/a Merck Animal Health) at merck-animal-health.com.

USE RESTRICTIONS

Application is prohibited directly into sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur. Do not allow the product to enter any indoor or outdoor drain during or after application. (*No permita la entrada a desagues internos o externos*).

Not for use in outdoor residential misting systems.

When used in dairy barns or facilities: Close milk bulk tank lids to prevent contamination from spray and from dead or falling insects. Remove or cover milking utensils before application. Wash teats of animals before milking.

Apply To: Lactating and Non-Lactating Dairy Cattle, Beef Cattle, and Calves

Target Species: Lice, Horn flies, Face flies. Aids in control of Horse flies, Stable flies, Mosquitoes, Black flies, and Ticks.

Dosage: Apply 3 mL per 100 lbs body weight of animal up to a maximum of 30 mL for any one animal. Pour along back and down face.

Apply To: Sheep

Target Species: Sheep keds, Lice

Dosage: Pour along back. Apply 1.5 mL per 50 lbs of body weight of animal, up to a maximum of 18 mL for any one animal.

For cattle and sheep, repeat treatment as needed but not more than once every 2 weeks.

Special Note: [5% Permethrin Pour-On] [This product] is not effective against cattle grubs. [5% Permethrin Pour-On] [This product] should be used in an integrated pest management system which may involve repeat treatments and the use of other pest

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control practices.

Do not allow the product to enter any drain during or after application. Do not make applications during rain. Avoid making applications when rainfall is expected before the product has sufficient time to dry (minimum 4 hours). Rainfall within 24 hours after application may cause unintended runoff of pesticide application.

Do not spray the product into fish pools, ponds, streams, or lakes. Do not apply directly to sewers or storm drains, or to any area like a drain or gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur. Do not allow the product to enter any drain during or after application. Do not apply or irrigate to the point of runoff.

SPRAY DRIFT ADVISORIES Handheld Technology Applications: Take precautions to minimize spray drift.

STORAGE AND DISPOSAL

(Note to reviewer: This product is non-dilutable.)

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Keep container sealed when not in use. Do not store near food or feed.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Do not pour or dispose down-the-drain or sewer. Call your local solid waste agency for local disposal options.

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.



[Optional Warranty Statement

NOTICE OF WARRANTY

To the extent consistent with applicable law, Intervet, Inc./Merck Animal Health makes no warranty of merchantability, fitness for any particular purpose or otherwise expressed or implied, concerning this product or its uses which extend beyond the use of this product under normal conditions and in accordance with the statements on this label.]

Optional Marketing claims, pictograms, and product information

(May be presented on the container or supplemental labeling)

- Take Control of Flies and Lice
- May be used with Automatic Dosing System
- Squeeze 'N' Measure Bottle
- U.S. Patent No. 5,750,514
- Made in the USA
- Merck Animal Health and/or Intervet Logo
- (For one gallon container): Treats 229 550 lb [Head of] Cattle
- (For one quart container): Treats 57 550 lb [Head of] Cattle
- Pictures of Application Methods, Use Sites, and Target Pests
- Squeeze 'N' Measure™ bottle icon
- Automatic Dosing system icon