

2019-6599  
2020-05-06

Cannister principal display panel

GROUP	<b>3</b>	INSECTICIDE
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Group 3 insecticide  
Ectiban®25 Fly-Killer  
Surface spray

Agricultural  
Pyrethroid insecticide/emulsifiable concentrate

Keep out of reach of children  
Read label before using

Active ingredient: permethrin 240 g per litre

Registration no. 15701 Pest Control Products Act

For indoor use only to provide residual control of horn flies, face flies, black flies, and stable flies in livestock housing such as poultry houses, stables, swine houses and milking parlours and holding rooms.

FOR USE ON NON-LACTATING DAIRY CATTLE, BEEF CATTLE, SHEEP AND POULTRY ONLY. DO NOT use on any other animal, including lactating dairy cattle.

Controls horn flies, face flies, black flies, mosquitoes and lice on non-lactating dairy cattle.  
Controls horn flies, face flies, black flies, mosquitoes, lice and Rocky Mountain wood tick on beef cattle.  
Controls ked on sheep.  
Controls Northern fowl mite on poultry.

Merck logo  
Intervet Canada Corp.  
Subsidiary of Merck & Co., Inc.  
16750, route Transcanadienne  
Kirkland, QC H9H 4M7  
1 866 683-7838

473 mL

Cannister secondary display panel

**DIRECTIONS FOR USE**

**General restrictions:** DO NOT apply as a space spray. DO NOT apply undiluted. As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests. DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes. Where multiple applications are allowed, treatment must only be repeated if pest problem persists or reoccurs. DO NOT exceed the application rate and number applications per year for each use. Follow the re-application interval for each use.

**Indoor broadcast surface spray in livestock housing only:**

Additional restrictions for indoor broadcast surface spray in livestock housing only: DO NOT apply outdoor. DO NOT apply to people, pets or sources of electricity. DO NOT apply indoors when people, pets or livestock are present. DO NOT allow people, pets or livestock to enter treated areas until sprays have dried. DO NOT allow spray to drip or allow drift onto non-target surfaces. DO NOT apply to overhead areas or in confined spaces without appropriate respiratory and eye protection. Ventilate treated areas after application either by opening windows and doors or using fans, where required, to aid in the circulation of air. Air exchange/ventilation systems confirmed to be operational may also be used. For dilute sprayers, use a coarse droplet size and low pressure spray not exceeding 345 kPa (50 psi) to avoid splashing onto non-target surfaces. DO NOT contaminate food/feed. Do not spray where food or feed products are present. DO NOT apply when milking parlours, milk rooms and dairies are in operation. Cover all surfaces of milking equipment or thoroughly wash them following treatment. Any food/feed (e.g., milk) accidentally contaminated with spray solution must be discarded. DO NOT apply the spray mixes used to treat structures to animals (including poultry). Follow directions for direct application to livestock and poultry found on this label.

Application instructions for indoor broadcast surface spray in livestock housing only: For indoor use only to provide residual control of horn flies, face flies, black flies, and stable flies in livestock housing such as poultry houses, stables, swine houses and milking parlours and holding rooms. Spray all inside building surfaces of the barn including walls, ceilings and, beams. DO NOT reapply this product for at least 14 days. Treatment must only be repeated after 14 days if pest problem persists or reoccurs. DO NOT exceed 12 applications per year. Livestock returned to treated areas cannot be slaughtered for a minimum of 7 days after the treatment was applied to the livestock facility. The use of any residual fly spray should be supplemented with proper sanitation including elimination of fly breeding sites.

Apply using the following methods:

Dilute Sprayer: Dilute 20 mL of ECTIBAN® 25 with 2.5 L of water. Apply diluted spray at a rate of 2.5L/100 m<sup>2</sup> of structural surface.

Electric Mist Sprayer: Dilute 20 mL of ECTIBAN 25 with 75 mL diesel oil or water. Apply diluted spray at a rate of 75 mL/100 m<sup>2</sup> to be sprayed. Direct spray at surface from a distance of 2 to 2.4 m while spraying.

Do not apply the above spray mixes directly to animals or poultry. Follow directions below for direct application to livestock and poultry.

**TOPICAL APPLICATIONS**

**(1) SPRAY APPLICATION**

Type of Animal	Pest	Concentration	Maximum Rate	Minimum Re-application Interval	Maximum number of applications	Pre-Slaughter Interval	Application Instructions
Dairy Cattle (Non lactating Only)*	Horn Flies Face Flies Black Flies Mosquitoes	Mix 200mL with 100 L water in a sprayer.	Apply 1 to 2 L of spray mix per animal	14 days for horn flies and face flies 8 days for black flies and mosquitoes	2 applications/animal/year	Leave a seven day interval between last spray and slaughter.	Apply over the whole body

Type of Animal	Pest	Concentration	Maximum Rate	Minimum Re-application Interval	Maximum number of applications	Pre-Slaughter Interval	Application Instructions
	Horn Flies Face Flies	Mix 20mL with 1 L water in a low pressure sprayer.	Apply 25 to 50 mL of spray mix per animal.	14 days			Apply to face and shoulders.
	Lice	Mix 200mL with 400 L water in a sprayer.	Do not exceed 8 L of spray mix per animal.	14 days			Spray until entire animal is thoroughly covered. A second treatment at 14 to 21 days is recommended
Beef Cattle	Horn Flies, Face Flies, Lice Black Flies, Mosquitoes	Mix 200mL with 400 L water in a sprayer.	Do not exceed 8 L of spray mix per animal.	14 days for Horn Flies and Face Flies 14 days for Lice 8 days for Black Flies and Mosquitoes	2 applications/ animal/year	Leave a seven day interval between last spray and slaughter.	Spray until entire animal is thoroughly covered. For Lice, a second treatment at 14 to 21 days is recommended
	Rocky Mountain Wood Tick	Mix 200mL product with 100 L water in a high pressure sprayer.	Spray up to 3 L of mixture per animal.	14 days			Spray along the top line, from head to tail of the animal, using sufficient pressure to penetrate to the skin. Apply treatment at time of entry into a tick infested pasture. A second treatment 2 - 3 weeks later is recommended if paralysis due to tick infestation is observed.
Sheep	Sheep Ked	Mix 200mL with 50 L water in a sprayer.	Do not exceed a maximum of 150 mL of spray solution per animal.	Not applicable	DO NOT reapply more than once per animal per year.	DO NOT apply to lambs or sheep within 90 days of slaughter.	Spray until entire animal is thoroughly covered. Do not treat sick animals. Do not contaminate feed or watering areas. Treatment is in fall or winter before lambing and shearing.
Poultry	Northern Fowl Mites	Mix 200mL with 100 L water in a sprayer.	Apply 4 L of spray mix to each 100 birds.	14 days	2 applications/ animal/year	Do not slaughter within 7 days of treatment.	Spray from below to ensure thorough treatment of the vent area.

\*: DO NOT apply within 30 days of freshening. DO NOT use on lactating dairy cattle.

## (2) BACK-RUBBER/SELF TREATMENT OILERS (Pest-Doom, Lewis)

For treatment of beef cattle in pasture or range situations with oilers placed under free or forced-use conditions.

Not For Use with dairy cattle.

Type of Animal	Insects	Concentration	Rate	Pre-Slaughter Interval
Beef Cattle	Black Flies Mosquitoes	Dilute 200 mL with 10 L lightweight oil	Calibrate self-treatment oilers so the rate per animal does not exceed 0.125 g permethrin/animal /day.	Utilize a one day holding period between termination of use and slaughter.

## RESISTANCE MANAGEMENT RECOMMENDATIONS

ECTIBAN 25 Fly Killer contains the synthetic pyrethroid permethrin (a Group 3 Insecticide). Any insect population may contain individuals naturally resistant to permethrin and to other Group 3 Insecticides. Continuous or repeated exposure to insecticides of this group rapidly selects for resistant pests, eventually leading to the failure

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of the insecticide to provide satisfactory control. Permethrin resistance has already been recorded in horn fly populations in Canada. The use of this product should therefore conform to current resistance management strategies.

#### **To delay insecticide resistance:**

1. Where possible, rotate the use of ECTIBAN 25 with insecticides of other groups that control the same pests in a field.
2. Insecticide use should be based on an Integrated pest management program that includes scouting, record keeping, and considers cultural, biological and other chemical control practices.
3. Monitor treated pest populations for resistance development.
4. Consult with local provincial authorities and extension specialist for advice on any additional pesticide resistance-management and/or IPM strategies to control cattle pest populations in your area.
5. For further information or to report suspected resistance contact Intervet Canada Corp. at (866) 683-7838.

#### **PRECAUTIONS**

KEEP OUT OF REACH OF CHILDREN. HARMFUL IF SWALLOWED. Do not get in eyes. Wash thoroughly after handling.

For mechanically-pressurized handheld sprayer for mists, aerosols, and fogs applications, or entering treated areas before venting, wear chemical-resistant coveralls with a chemical-resistant hood over long pants, and long-sleeved shirt, chemical-resistant gloves, socks, chemical-resistant footwear, and a respirator with a NIOSH-approved organic vapour-removing cartridge with a prefilter approved for pesticides OR a NIOSH-approved canister approved for pesticides during mixing, loading, application, clean-up and repair.

For mechanically pressurized handgun applications, wear cotton coveralls over long-sleeved shirt, long pants, chemical-resistant gloves, socks, and shoes during mixing, loading, application, clean-up and repair.

For other application equipment wear long pants, long-sleeved shirt, chemical-resistant gloves, shoes, and socks during mixing, loading, application, clean-up and repair, unless otherwise specified.

#### **FIRST AID**

**If swallowed**, call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person. **In case of contact with eyes**, hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice. **In case of contact with skin or clothing**, take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

#### **TOXICOLOGICAL INFORMATION**

Inducing vomiting as a first aid for this slightly toxic substance may result in increased risk of chemical pneumonia or pulmonary edema caused by aspiration of the hydrocarbon solvent. Vomiting should be induced only under professional supervision. Skin exposure may cause transient sensations (tingling, burning, itching, numbness). Treat symptomatically.

#### **STORAGE AND DISPOSAL**

Keep container closed when not in use. Do not store near food or feed. Triple-or pressure-rinse the empty container thoroughly and add the rinsings to the spray mixture in the tank. Follow provincial instructions for any required additional cleaning of the container prior to its disposal. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial requirements. In case of spill or leak on floor or paved surfaces, soak up with sand, earth or synthetic absorbent. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.



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**ENVIRONMENTAL PRECAUTIONS**

This product is very toxic to aquatic organisms. Toxic to birds. Toxic to bees. Toxic to certain beneficial arthropods. Do not apply when weather conditions favor drift from target area. This product contains a petroleum distillate which is moderately to highly toxic to aquatic organisms. Avoid contamination of aquatic systems during application.

**PHYSICAL OR CHEMICAL HAZARDS**

Do not use or store near heat or open flames.

**NOTICE TO USER**

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Agricultural

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Bottle secondary display panel English

RETAIN OUTER CONTAINER FOR USE DIRECTIONS

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