

Ready, aim, control insects

that can compromise meat and milk production



BOSS®
Pour-On

SABER®
Pour-On

SABER®
Insecticide Ear Tags

Ectiban® 25 Fly-Killer
Surface Spray

**Insecticide
Portfolio**

More than just a nuisance:

How insects can affect cattle... and your bottom line



R

🎯 Pest insects can cause **direct damage** to cattle by their annoyance, irritation, blood feeding, modification of host behaviour, and invasion of tissues.¹

🎯 Potential direct losses include, among others:¹

- dermatitis
- reduction in weight gain performance
- injury during pest avoidance
- anemia
- devaluation of carcass

🎯 Insects may also cause **indirect damage** to cattle by transmitting pathogens mechanically or biologically,¹ contributing to increased treatment costs and production losses.

🎯 One such example is the association that has been observed between face flies and pinkeye,^{1,2,3} which has been shown to result in lower weaning weights in affected cattle.²



Insect control is a wise investment that may pay dividends in the form of increased animal well-being and greater productivity.

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Help keep beef and dairy cattle comfortable and productive

Show flies, lice and ticks who's in charge... with BOSS® Pour-On



Ready-to-use **BOSS® Pour-On** is a convenient, easy-to-apply insecticide to help control annoying insects that irritate cattle, distract them from feeding, and potentially reduce production.

Recommended for use on beef, lactating and non-lactating dairy cattle, and sheep

Insect species	Active ingredient	Presentations	Number of animals treated*	Advantages	Withdrawal period
Beef, lactating and non-lactating dairy cattle: <ul style="list-style-type: none">☉ Biting lice☉ Sucking lice☉ Horn flies☉ Rocky Mountain wood ticks	Permethrin 5% (synthetic pyrethroid active)	900-ml Squeeze N'Pour container	Cattle*: 50	Quick knockdown Residual effect Ready to use Concentrated†	No milk withdrawal period Beef, lactating and non-lactating dairy cattle: can be used right up to 1 day prior to slaughter
		☉ No-fuss, one-hand application	Sheep†: 150		
Sheep: <ul style="list-style-type: none">☉ Sheep keds☉ Lice		Ready-to-use 5 L container	Cattle*: 277 Sheep†: 833	☉ Low volume ☉ Less work to apply ☉ More economical	Sheep: can be used up to 2 days prior to slaughter

* Apply 3 mL (1/10 FL OZ) per 45 kg (100 lbs) body weight up to a maximum of 30 mL (1 FL OZ) for one animal. Number of animals treated assuming an average body weight of 600 lbs per animal, or an 18-mL dose per animal.

† Apply 1.5 mL per 23 kg (50 lbs) body weight up to a maximum of 18 mL for one animal. Number of animals treated assuming an average body weight of 200 lbs per animal, or a 6-mL dose per animal.

‡ More concentrated than other similar products available on the market. Read the product label before using.

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Help control lice, flies and ticks in beef cattle and calves

Strike a blow against performance-sabotaging insects... with SABER® Pour-On



SABER® Pour-On is a broad-spectrum insecticide that contains lambda-cyhalothrin, a second-generation pyrethroid. More concentrated than traditional pour-ons containing the same active ingredient, this ready-to-use solution offers two convenient dosing options, providing effective insect control for up to four weeks with a single treatment.



Recommended for use on beef cattle and calves

Insect species	Active ingredient	Presentations	Number of animals treated* (600 lb)	Advantages	Withdrawal period
Biting lice Sucking lice Horn flies Rocky Mountain Wood ticks	Lambda-cyhalothrin 1% (second-generation pyrethroid)	Ready-to-use 5 L container	333	Alternative treatment option Long-lasting residual effect Ready to use More concentrated than traditional pour-ons	Allow a 7-day interval between the last treatment and slaughter

* 10 ml for animals weighing less than 600 lb, and 15 ml for heavier animals. Read the product label before using.

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Help beef and non-lactating dairy cattle keep flies at bay



Reduce insect pressure and the potential for pinkeye infection transmission... with SABER® Insecticide Ear Tags



SABER® Insecticide Ear Tags contain a second-generation, slow-release active ingredient.

A single **SABER® Insecticide Ear Tag** provides season-long control of horn flies, and reduces face flies for up to two months... for less than what it costs producers who currently use two conventional insecticide ear tags.

Recommended for use on beef and non-lactating dairy cattle

Insect species	Active ingredient	Presentations	Number of animals treated	Advantages
Horn flies Face flies	Lambda-cyhalothrin 10% (second-generation pyrethroid)	Box of 20 tags and buttons	20	Long-lasting residual effect One tag per animal controls both horn flies and face flies ⦿ The use of a single ear tag makes this a cost-effective option ⦿ Face fly control bonus for producers who currently use one conventional tag

Read the product label before using.

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Help create conditions that promote animal well-being and productivity



Control insects through topical spray, residual premise spray and back rubber applications... with multipurpose ECTIBAN® 25

ECTIBAN® 25 Fly-Killer Surface Spray is a multipurpose, emulsifiable concentrate that can be used in livestock premises and in back rubbers or self-treatment oilers, as well as topically on animals. As part of a comprehensive insect control program, **Ectiban® 25 Fly-Killer Surface Spray** can help lessen the negative impact of insects on livestock feeding, and contribute to optimal meat and milk production.



Insect species	Active ingredient	Presentations	Advantages	Withdrawal period
TOPICAL SPRAY APPLICATION Non-lactating dairy cattle: horn flies, face flies, black flies, mosquitoes and lice Beef cattle: horn flies, face flies, lice, black flies, mosquitoes and Rocky Mountain wood ticks Sheep: sheep ked Poultry: Northern fowl mites	Permethrin 25% (synthetic pyrethroid active)	473 ml bottle	Fast knockdown Residual effect Concentrated (dilute prior to use) ⦿ Low volume ⦿ Less work to apply ⦿ More economical	SPRAY APPLICATION ON ANIMALS ⦿ Non-lactating dairy cattle, beef cattle and poultry: 7 days ⦿ Do not apply within 30 days of freshening (non-lactating dairy cattle) ⦿ Sheep and lamb: 90 days
BACK RUBBER APPLICATION Beef cattle: black flies and mosquitoes			Can be used as a surface spray in premises, or topically on animals	BACK RUBBER APPLICATION ⦿ Beef cattle: 1 day
RESIDUAL PREMISE SPRAY APPLICATION Horn flies, face flies, black flies and stable flies				

Read the product label before using.

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Pour-on? Tag? Spray?



When it comes to controlling insects on animals and in livestock premises, you call the shots...

...with a wide range of insecticide products designed to help keep livestock content and productive.

The Merck Animal Health insecticide portfolio at a glance

	Sheep keds	Lice	Horn flies	Face flies	Black flies	Rocky Mountain wood ticks	Mosquitoes	Northern fowl mite	Ready to use
BOSS® Pour-On									X
Beef cattle, lactating dairy cattle and non-lactating dairy cattle		⊗*	⊗			⊗			
Sheep	⊗	⊗							
SABER® Pour-On									X
Beef cattle and calves		⊗*	⊗			⊗			
SABER® Insecticide Ear Tags									X
Beef cattle and non-lactating dairy cattle			⊗	⊗					
Ectiban® 25 Fly-Killer Surface Spray†									
Beef cattle		⊗	⊗	⊗	⊗	⊗	⊗		
Non-lactating dairy cattle		⊗	⊗	⊗	⊗		⊗		
Sheep	⊗								
Poultry								⊗	

* Biting lice and sucking lice.

† The spectrum of action of ECTIBAN® 25 Fly-Killer varies depending on the mode of application and animal species. Please refer to the product label for specifications. Read product labels before using.

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References

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2. Step DL, and Smith RA. Nonrespiratory diseases of stocker cattle. *Vet Clin North Am Food Anim Pract*, 2006, July; 22: 413-434.
3. Cortinas R, and Jones CJ. Ectoparasites of cattle and small ruminants. *Vet Clin North Am Food Anim Pract*, 2006, July; 22: 673-693.



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