



**OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION**

WASHINGTON, D.C. 20460

May 30, 2025

Noelle Sanfillipo  
Regulatory Affairs Specialist  
Wellmark International  
1501 E. Woodfield Road, Suite 200W  
Schaumburg, IL 60173

Subject: Notification per PRN 98-10 – Addition of the Statement “Dilute as shown in tables in Directions for Use on back label” to Optional Marketing Claims  
Product Name: ZOËCON® RF-43 EMULSIFIABLE LIQUID  
EPA Registration Number: 2724-262  
Application Date: May 13, 2025  
Case Number: 656884

Dear Noelle Sanfillipo:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped “NOTIFICATION” and placed in our records.

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 (FIFRA) 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) lists 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.

If you have any questions, please contact Carmen Rodia via e-mail at [Rodia.Carmen@epa.gov](mailto:Rodia.Carmen@epa.gov).

Sincerely,

A handwritten signature in black ink that reads "Tamica Cain". The signature is written in a cursive, flowing style.

Tamica L. Cain, Product Manager 10  
Invertebrate & Vertebrate Branch 2  
Registration Division (7505T)

*Enclosure:      Stamped "Notification" Label, May 30, 2025*

## NOTIFICATION

2724-262

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

05/30/2025

[indicates optional text]

### ZOËCON® RF-43 EMULSIFIABLE LIQUID

Alternate Brand Names: **STARBAR® PROLATE/LINTOX -HD™ INSECTICIDAL SPRAY & BACKRUBBER FOR LIVESTOCK  
VETKEM PARAMITE L.A. INSECTICIDAL SPRAY & BACKRUBBER FOR CATTLE & SWINE  
(CONTAINS PHOSMET)**

For use on cattle and swine only. NOT for residential use on companion animals.  
CONTROLS HORN FLIES, LICE, SARCOPTIC MANGE, AND TICKS ON CATTLE  
[Controls] LICE AND SARCOPTIC MANGE ON SWINE

Dilute as shown in tables in Directions for Use on back label

#### ACTIVE INGREDIENT:

Phosmet (CAS #732-11-6) ..... 11.75%

**OTHER INGREDIENTS\*:** ..... 88.25%

**TOTAL:** ..... 100.00%

\* Contains petroleum distillates

Contains 1 lb active ingredient per gallon

### KEEP OUT OF REACH OF CHILDREN

#### WARNING

SEE OTHER PRECAUTIONS/FIRST AID ON BACK PANEL.  
READ ALL DIRECTIONS BEFORE USING.

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## PRECAUTIONARY STATEMENTS

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS - WARNING:** May be fatal if swallowed. Causes substantial but temporary eye injury. Harmful if absorbed through skin. Do not get in eyes, or on clothing. Avoid contact with skin. Wear protective eyewear (goggles, face shield, or safety glasses), long-sleeved shirt, long pants, shoes and socks, and chemical-resistant gloves (barrier laminate or viton, selection category G).

FIRST AID	
If swallowed	<ul style="list-style-type: none"><li>▪ Immediately call a poison control center or doctor.</li><li>▪ Do not induce vomiting unless told to do so by a poison control center or doctor.</li><li>▪ Do not give any liquid to the person. 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 eyes.</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>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-347-8272 [1-800-766-7661] for emergency medical treatment information.	
<b>NOTE TO PHYSICIAN/VETERINARIAN:</b> Probable mucosal damage may contraindicate the use of gastric lavage. ZOËCON® RF-43 EMULSIFIABLE LIQUID is an organophosphate insecticide and a cholinesterase inhibitor. If signs of cholinesterase inhibition are present, atropine is antidotal. 2-PAM is also antidotal and may be administered in conjunction with atropine. If ingested, do not induce vomiting. May present aspiration hazard. Usual symptoms of organophosphate poisoning in humans include: headache, blurred vision, weakness, nausea, discomfort in the chest, vomiting, abdominal cramps, diarrhea, salivation, sweating, pin-point pupils. Usual symptoms of poisoning in animals include: salivation, labored breathing, gastrointestinal disturbance, tremors, staggering, and pin-point pupils.	

### User Safety Recommendations:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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 toxic to fish and aquatic invertebrates. 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 or rinsate. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. This chemical can contaminate surface water. Under some conditions, it may have a high potential for runoff into surface water after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlying extremely shallow groundwater, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas overlying tile drainage systems that drain to surface water. Do not allow spray to drift from the application site and contact people, structures people occupy at any time and the associated property, parks and recreation areas, nontarget crops, aquatic and wetland areas, woodlands, pastures, rangelands, or animals. This product is highly toxic to bees exposed directly to residues. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. Protective information may be obtained from your cooperative Agricultural Extension Service.

**PHYSICAL OR CHEMICAL HAZARDS:** Do not use or store near heat or open flame. Protect from temperatures below 20° F.

**DIRECTIONS FOR USE:** It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Stir thoroughly. Apply fresh mixture as a coarse spray, taking care to wet skin, not just hair. Do not apply to point of run-off. Do not allow spray to drift.  
Dilute as shown in tables below:

<b>BEEF AND NON-LACTATING DAIRY CATTLE SPRAY</b>			
	<b>DILUTION RATE</b>		
To Control:	One gallon of product in ___ gallons of water:	One quart of product in ____ gallons of water:	One cup of product in ____ gallons of water:
Cattle Ticks, Southern Cattle Ticks	240	60	15.0
Horn Flies	200	50	12.5
Lice	150	38	9.5
Sarcoptic Mange, Winter Ticks, Lone Star Ticks, Gulf Coast Ear Ticks	100	25	6.2

**CATTLE BACKRUBBER**

	<b>DILUTION RATE</b>	
	<b>ZOËCON® RF-43 EMULSIFIABLE LIQUID</b>	<b>Fuel Oil or Other Suitable Carrier**</b>
To Control Horn Flies	1 gallon	50.00 gallons
Use fuel oil or other suitable carrier**	½ gallon	25.00 gallons
	1 quart	12.50 gallons
	1 pint	6.25 gallons
	1 cup	3.10 gallons

Charge backrubber device or soak sack or cloth, as required. Retreat backrubber, as needed.

\*\*Other Suitable Carriers – Diesel oil, Kerosene

**CATTLE/WARNINGS:**

1. ZOËCON® RF-43 EMULSIFIABLE LIQUID is a cholinesterase inhibitor. Do not use this product on animals simultaneously or within a few days before or after treatment with or exposure to cholinesterase inhibiting drugs, pesticides, or chemicals. Atropine is antidotal. Consult veterinarian at first sign of adverse reaction.
2. Do not treat sick, convalescent, stressed, or animals less than 3 months old.
3. CATTLE MAY BE SLAUGHTERED 3 DAYS AFTER TREATMENT.
4. Do not treat non-lactating dairy cattle within 28 days of freshening. If freshening should occur within the 28 day period after treatment, that milk must not be used as human food.
5. **IMPORTANT:** In cattle, repeat treatment as necessary, but not more often than every 7 to 10 days. Treatment for lice, ticks, sarcoptic mange, and horn flies may be made any time of the year except when cattle grub larvae are in the gullet or spinal canal. Consult your veterinarian, extension livestock specialist, or extension entomologist regarding timing of treatment.

**SWINE SPRAY****DILUTION RATE**

To Control Lice, Sarcoptic Mange	One gallon of product in 100 gallons of water	One quart of product in 25 gallons of water	One cup of product in 6.25 gallons of water
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**SWINE/WARNINGS:**

1. ZOËCON® RF-43 EMULSIFIABLE LIQUID is a cholinesterase inhibitor. Do not use this product on animals simultaneously or within a few days before or after treatment with or exposure to cholinesterase inhibiting drugs, pesticides, or chemicals. Atropine is antidotal. Consult veterinarian at first sign of adverse reaction.
2. Do not treat sick, convalescent, or stressed animals. Do not apply directly to suckling pigs.
3. SWINE MAY BE SLAUGHTERED ONE DAY AFTER TREATMENT.
4. In swine, single applications for lice and sarcoptic mange control are usually effective; however, should a second application be necessary, it may be made 14 days following first treatment.

### **STORAGE and DISPOSAL**

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

**Pesticide Storage:** Store in a cool, dry place. Always store pesticides in the original container. If a leaky container must be contained within another, mark the outer container to identify the contents. The storage areas must be dry, well-lit, and well-ventilated. Keep pesticide storage areas clean. Clean up spills promptly. Store pesticides away from food, pet food, feed, seeds, fertilizers, and veterinary supplies.

**Pesticide Disposal** - Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

**Container Handling:** - Nonrefillable container. Do not reuse or refill this container. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container  $\frac{1}{4}$  full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

To the extent consistent with applicable law, seller makes no warranty, express or implied, concerning the use of this product other than indicated on the label. To the extent consistent with applicable law, buyer assumes all risk of use and handling of this material when such use and handling are contrary to label instructions.

For information, or in case of an emergency, call 1-800-347-8272 [1-800-766-7661] or visit our Web site: [URL]

Prolate LINTOX-HD and STARBAR are trademarks of Wellmark International.  
Vet-Kem and Paramite are registered trademarks of Pegasus Laboratories, Inc.

EPA Reg. No. 2724-262  
EPA Est. No.

Made In USA

Wellmark International  
1501 East Woodfield Road 200W  
Schaumburg, IL 60173

(Optional text below)

[NOTICE: This product can expose you to chemicals including naphthalene and methanol which are both known to the State of California to cause cancer or birth defects or other reproductive harm. For more information, visit [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov) ]