



U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (7505C)  
401 "M" St., S.W.  
Washington, D.C. 20460

EPA Reg. Number:  
4691-134

Date of Issuance:  
SEP 14 1999

NOTICE OF PESTICIDE:  
\_\_\_\_ Registration  
 X  Reregistration

Term of Issuance:  
Unconditional

Name of Pesticide Product:  
Rabon 7.76 Oral  
Larvicide Premix

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Boehringer Ingelheim Animal Health, Inc.  
k2621 North Belt Highway  
St. Joseph, Missouri 64506-2002

**Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product, always refer to the above EPA registration number.**

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

Based on your response to the Reregistration Eligibility Document(s), EPA has reregistered the product listed above. Enclosed is a copy of your label stamped Accepted. This action is taken under the authority of section 4(g)(2)(c) of the Federal Insecticide, Fungicide, and Rodenticide Act, as amended. Reregistration under this section does not eliminate the need for continual reassessment of pesticides. EPA may require submission of data at any time to maintain the registration of your product.

Signature of Approving Official:

*George LaRocca*  
George LaRocca  
Insecticide Branch  
Registration Division (7505C)

Date:

You must make the following labeling changes:

You must add the EPA Establishment Field preferably on the front panel of your labeling. The number must be preceded by the phrase "EPA Establishment Number" or EPA Est. no.", as per the Label Review Manual.

The statement "PRECAUTIONARY STATEMENTS" must appear in all caps for consistency with other labels.

The Statement of Practical Treatment or First Aid must be added to the label and must contain the following statements as per the Acute Toxicity Review:

**IF SWALLOWED:** Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger, or if available by administering syrup of ipecac. If person is unconscious, do not give anything by mouth and do not induce vomiting.

**IF ON SKIN:** Wash with plenty of water. Get medical attention.

**If IN EYES:** Flush eyes with plenty of water. Call a physician if irritation persists.

As per the acute toxicity review, the precautionary statements must be revised to read as follows:

Harmful if swallowed or absorbed through the skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

#### **Personal Protective Equipment**

For clarity and consistency with other products, The Personal Protective Equipment must be presented on the label directly below the Hazards to Humans and Domestic Animals as follows:

"Mixers and Handlers must wear:

- long-sleeved shirt and pants
- shoes and socks
- chemical resistant gloves"

#### **User Safety Requirements**

The user safety requirements must appear on the label as follows:  
"Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry."

**User Safety Recommendations**

As per the RED, the following User Safety Recommendations must be added to the label and placed in a box:

"Users should wash hands before eating drinking, chewing gum, using tobacco or using the toilet."

"Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing."

"Users 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."

**Storage and Disposal**

The "Storage and Disposal" section should be moved to the "Directions for Use" section, directly following the statement it is a violation..."

**General Information**

The sub-header "General Information" must be placed on the label. Information such as "To prevent the development of horn flies, face flies, house flies, and stable flies in the manure of treated cattle; ...of treated mink" and Rations containing this product...may be used to prepare formulated feeds. :, should be included.

**General Precautions and Restrictions**

You must add the sub-heading "General Precautions and Restrictions" should be added to the Directions for Use directly below the General Information section and the following statement currently in the "Directions for Use" section be moved to this section.

The subheading **General Precautions and Restrictions** should be added to the label to read and include the following information:

Do not apply this product in a way that will contact workers or other persons, either directly or through drift."

Only protected handlers may be in the area during application.

Feeds prepared with this product should not be pelleted nor be mixed with feeds...Further, ...in liquid feed supplements.

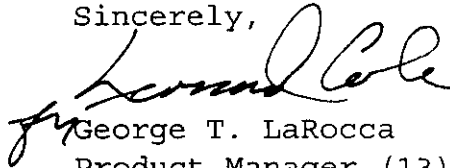
**Directions for Use (Application Instructions)**

For clarity and consistency with other labels, you must add the subheading "Application Instructions" in the Directions for use Section directly above: "Cattle: In a Concentrate Feed...". In addition, the phrase, "This product may be fed up to slaughter and to lactating cow" must be revised to read: "This product may be

4/6  
fed to cows, swine and mink up to slaughter and to lactating cows":

Enclosed is a copy of your label stamped "Accepted with Comments". Please submit two (2) copies of your final printed labeling before releasing your product for shipment. Please refer to the A-79 enclosure for further description of final printed labeling. Should you have any questions, you may contact Leonard Cole directly at 703.305.5412.

Sincerely,



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

)  
Enclosure  
  
)



**Boehringer  
Ingelheim**

**Rabon® 7.76 Oral  
Larvicide Premix**

To prevent the development of Horn Flies, Face Flies, House Flies and Stable Flies in the manure of treated cattle; House Flies in the manure of treated swine, House Flies and Stable Flies in the manure of treated horses and House Flies in the manure of treated mink.

Active Ingredient	By Weight
Tetrachlorvinphos: (CAS #22248-79-9) .....	7.76%*
Inert Ingredients .....	92.24%**
Total .....	100.00%

\* RABON Insecticide - Contains 35 grams of RABON per pound.  
\*\* Refers only to ingredients which are not larvicidal.

**Keep Out of Reach of Children**

**CAUTION**

See side panel for additional precautionary statements.

Net Weight 40 Pounds

Boehringer Ingelheim Vetmedica, Inc. EPA Reg. No. 4691-134  
St. Joseph, Missouri 64506-2002 9706

AGREED  
with COMMENTS  
in EPA Letter Dated

SEP 14 1999

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
4691-134

**Precautionary Statements  
Hazards to Humans**

**CAUTION**

Harmful if swallowed. Avoid contact with skin and eyes. Avoid breathing dust. Wash thoroughly with soap and water after handling and before eating or smoking. If in eyes, wash with plenty of water. If irritation persists, get medical attention. Wear long-sleeved shirt and pants; chemical resistant gloves; shoes and socks for protection when handling. This product may cause skin sensitization in certain individuals.

**Environmental Hazards**

This pesticide is toxic to fish. Do not contaminate water when disposing of equipment wash water.

**Storage & Disposal**

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

**Storage:** Store in a dry place in original container.

**Disposal:** Completely empty bag into mixing equipment. Then dispose of empty bag in a sanitary landfill or by incineration or if allowed by State and local authorities by burning. If burned, stay out of smoke. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**Warranty and Limitation of Damages**

Seller warrants that this material conforms to its chemical description and is reasonably 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.

5/6

## Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Rations containing this product may be fed up to slaughter and to lactating dairy cows without withholding the milk from nursing during or after treatment.

Start feeding RABON Larvicidal feeds early in the spring before flies begin to appear and continue feeding throughout the summer and into the fall until cold weather restricts fly activity.

When fed, this product passes through the digestive system into the animal's manure where it kills fly larvae on contact shortly after fly eggs hatch.

It prevents the development of fly larvae in the manure of treated animals, but is not effective against existing adult flies.

In some cases, supplemental fly control measures may be needed in and around cattle lots and barns to control adult house flies and stable flies which can breed not only on manure but in other decaying vegetable matter or silage on the premises.

In order to achieve optimum fly control, this product should be used in conjunction with other good management and sanitation practices.

This product will mix uniformly in feeds when standard mixing procedures are followed. Thus, usual problems that are common to all feed preparation and which cause stratification, such as excessive free-fall or excessive handling, are to be avoided. It is recommended that appropriate preblending techniques be employed to assure adequate distribution throughout the feed mix. The premix should be preblended with ground grain, protein supplements, mineral mixes, etc. before being added to roughages such as chopped hay or silage. Mixing time should be adequate to assure uniform dispersion. Optimum performance can be assured only if this product is dispersed uniformly with the feedstuff at the recommended level. Common feed mixing equipment (i.e. vertical mixers, horizontal blenders, mixer/food truck) may be used to prepare formulated feeds.

Feeds prepared with this product should not be pelleted nor be mixed with feeds containing predominantly pellets. Further, this product should not be mixed in liquid feed supplements.

## Cattle

**In a Concentrate Feed - Roughage Fed Separately**  
This product can be used to prepare concentrate feeds that will provide 70 mg of RABON per 100 pounds of body weight daily.

To prepare a larvicidal concentrate feed, mix this product according to the amount of concentrate to be fed per animal per day. Use the following table as a guide for determining the proper mixing rate.

Pounds of Concentrate Consumed per Animal per Day	MIXING GUIDE	
	RABON in the Concentrate mg/lb	%
5	1584	0.35
1.0	792	0.18
1.5	528	0.12
2.0	396	0.087
5.0	159	0.035
10.0	79	0.018
15.0	53	0.012
20.0	39	0.0087
25.0	32	0.0069
30.0	26	0.0059

Pounds of RABON 7.76 Oral Larvicidal Premix per Ton of Concentrate

Feed the appropriate larvicidal concentrate indicated to cattle weighing between 400 and 1200 pounds. For larger cattle weighing between 1200 and 1700 pounds, increase the amount of premix per ton of concentrate to 1 1/2 times that indicated.

## Cattle

**In a Complete Ration - No Other Roughage Fed**  
This product can be used to prepare rations that contain 26.4 mg of RABON per pound of complete ration.  
To prepare a larvicidal ration, mix 1.5 pounds of this product per ton of complete mixed ration containing both grain and roughage.

Full-feed this larvicidal complete ration to feeder cattle weighing from 300 to 1400 pounds to dairy cattle at a rate to sustain milk production, but not less than 2.6 pounds of the ration per 100 pounds of body weight daily.

## Swine

All swine should be treated.

Pig (weaners to market weight): Mix 1.3 pounds of this product per ton of meal-type feed and offer free choice. This is equivalent to 22.7 mg of RABON per pound of feed.

Sows, Boars and Breeding Gals: Mix 2.6 pounds of this product per ton of meal-type feed and offer 4 to 6 pounds of feed per animal per day. This is equivalent to 45.4 mg of RABON per pound of feed.

## Horses

**In a Concentrate Feed**

This product can be used to prepare concentrate feeds that will provide 70 mg of RABON per 100 pounds of body weight daily. All horses in the stable area should be treated. This product is not to be used on horses destined for slaughter.

To prepare a larvicidal concentrate feed, mix this product according to the amount of concentrate to be fed per animal per day. Use the following table as a guide for determining the proper mixing rate.

### MIXING GUIDE

Pounds of Concentrate Consumed per Horse Per Day	Pounds of RABON 7.76 Oral Larvicidal Premix Per Ton of Concentrate					
	250 lb. Horse	500 lb. Horse	1000 lb. Horse	2000 lb. Horse	2000 lb. Horse	2000 lb. Horse
2.5	4.0	8.0	16.0	32.0	32.0	32.0
5.0	2.0	4.0	8.0	16.0	16.0	16.0
10.0	1.0	2.0	4.0	8.0	8.0	8.0
15.0	0.7	1.4	2.7	5.4	5.4	5.4

**As a Top-dressing**

Add this product daily to the grain or concentrate portion of the horse's diet to provide 70 mg of RABON per 100 pounds of body weight. This is equivalent to the following: 1/2 tablespoon for a 250 lb. animal; 1 level tablespoon for a 500 lb. animal; 2 level tablespoons (8.8 g) for a 1000 lb. animal or 4 tablespoons for a 2000 lb. animal.

All horses in the stable area should be treated. This product is not to be used on horses destined for slaughter.

## Mink

When fed to mink, RABON passes through the digestive system into the droppings where fly larvae are killed on contact shortly after the fly eggs hatch. This product can be mixed in mink feeds to prevent the development of house flies but should not be used as the sole method of control. It is recommended that appropriate preblending techniques be employed when mixing to assure an adequate distribution of RABON throughout the feed mix. Problems with soybean meal, alfalfa meal, mineral mix, etc. before being added to other ingredients. Common feed mixing equipment (i.e. vertical mixers, horizontal blenders) may be used to prepare formulated feeds.

Add this product to the total feed at a rate that will ensure that each animal will consume 3 mg of RABON per kg of body weight (1-2 mg/pound) per day. Use the following table as a guide.

### MIXING GUIDE FOR MINK

Food Consumption (lbs) Daily Per Animal	Amount of RABON 7.76 to Mix in Food					
	500 lb.	1000 lb.	2000 lb.	2000 lb.	2.8 lbs.	360 grams
0.10	318 grams	1.4 lbs	227 grams	180 grams	1.0 lb.	236 grams
0.25	114 grams	90 grams	59 grams	40 grams	80 grams	160 grams
0.33	90 grams	59 grams	40 grams	33 grams	70 grams	140 grams
0.50	59 grams	40 grams	33 grams	26 grams	53 grams	106 grams
0.75	40 grams	26 grams	20 grams	15 grams	30 grams	60 grams
1.00	33 grams	20 grams	15 grams	12 grams	24 grams	48 grams

Start feeding Mink larvicidal feeds early in the spring before flies begin to appear and continue feeding throughout the summer until cold weather restricts fly activity. Supplemental adult fly control measures may be needed to and around the animal facilities and feed building to control adult flies, especially house flies that can breed in many kinds of organic matter.

In order to achieve optimum fly control this product should be used in conjunction with other good management and sanitation practices.