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Mr. Robert Shoup
Fermenta Animal Health Company
P.O. Box 901350
Kansas City, 64190-1350

Dear Mr. Shoup:

Subject: Amendment - Updated Confidential Statement of Formula,
Updated Labeling, Additional Use on Dairy Cattle, and
Additional Pests (Litter Beetles)
RAVAP E.C. Livestock, Poultry and Premise Insecticide
EPA Registration No. 56493-42
Your Applications Dated June 14, 1989, January 24, 1990 and
March 12, 1990

The amendment referred to above, submitted in connection with
registration under FIFRA sec. 3(c)(7)(A), is acceptable provided that you:

1. Submit and/or cite all data required for registration/reregistration
of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants
of similar products to submit such data.

2. Make the labeling changes listed below before you release the product
for shipment:

a. Revise the Note To Physician as follows: "If signs... atropine
by injection is antidotal...".

3. Submit five copies of your final printed labeling before you release
the product for shipment. Refer to the A-79 Enclosure for a further description
of final printed labeling.

If these conditions are not complied with, the registration will be subject
to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment
of the product constitutes acceptance of these conditions.

Sincerely yours,

George T. LaRocca
Product Manager 15
Insecticide-Rodenticide Branch
Registration Division (H7305C)

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RAVAP® E.C.
Livestock, Poultry & Premise Insecticide Spray
Recommended for Agricultural Use

Contains RABON® and VAPONA® Insecticides

ACTIVE INGREDIENTS	By Weight
Tetrachlorvinphos: 2-Chloro-1-(2,4,5-trichlorophenyl) vinyl dimethyl phosphate	23.0%*
Dichlorvos: 2,2-Dichlorovinyl dimethyl phosphate	5.3%**
Related Compounds	0.4%**
INERT INGREDIENTS	71.3%**
TOTAL	100.0%

- * RABON Insecticide
- ** Equivalent to 5.7% W VAPONA Insecticide
- *** Inert ingredients include Xylene

This product contains the toxic inert ingredient phenol.

Keep Out of Reach of Children

DANGER:

See other panels for additional precautionary statements.

Store Above 32°F.

Do not store above 120°F for an extended period of time.

Net Contents: 1 Gallon (3.8 Liters)

Parke-Davis Animal Health Company
P. O. Box 901350
Kansas City, MO 64190-1350

EPA Reg. No. 55493-42

ACCEPTED
with COMMENTS
in EPA Letter Dated:

6/11/90

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

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Directions for Use

This product is suitable for use in conventional power or low pressure knapsack sprayers and in livestock backrubbers. Follow the Use Directions for the proper dilution needed for specific insect control. Must be diluted in water except for backrubber use.

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. For Agricultural Use Only.

Livestock Use Directions

Use	Insect	Dilution Ravap In Water	Remarks
Livestock Spray (Beef Cattle)	Horn Flies, Lice, including Tail Lice, and Face Flies (aid in control)	1 gal. in 75 gal. or 5 oz. in 3 gal.	Dilute in water as indicated and spray directly on the animal to the point of runoff. Use between 1/2 to 1 gallon of diluted spray solution per animal depending on size and hair coat. There is no withholding period from last application to slaughter. Do not treat more often than every 10 days.
	Horn Flies, Lone Star Ticks	1 gal. in 200 gal. or 2 oz. in 3 gal.	Apply as above. For severe tick infestations, dilution may be increased to 1 gallon in 50 gallon water.
Livestock Spray (Lactating Dairy Cattle)	Horn Flies, Lice, Lone Star Ticks, and aids in control of Face Flies.	1 gal. in 200 gal. or 2 oz. in 3 gal.	Dilute in water as indicated. Direct spray to cover thoroughly with up to 1/2 gallon of the dilution per animal. Repeat as necessary.

Backrubber Use Directions

Use	Insect	Dilution Ravap In Oil	Remarks
Backrubber or Face Rubber (Beef Cattle and Dairy Cattle)	Horn Flies Face Flies (aid in control)	1 gal. in 25 gal. or 5 oz. in 1 gal.	Mix with #2 diesel oil or any approved backrubber base oil. Pour diluted solution into oil reservoir of mechanical rubbing devices or pour one gallon per 20 linear feet on burlap or rope backrubbers. Keep backrubber or facerubber charged.

Poultry Use Directions

Use	Insect	Dilution Ravap in Water	Remarks
Caged Chickens	Lice & Mites	1 gal. in 50 gal. or 5 oz. in 2 gal.	Apply 1 gal. of dilution/100 birds under high pressure (no less than 100-125 psi) to the vent and fluff areas from below. Repeat when necessary; however, not more often than every 14 days. For individual bird treatment, apply 1 ounce of dilution per bird.
Chickens on litter	Lice and Mites	1 gal. in 50 gal. or 5 oz. in 2 gal.	Apply 1-2 gal. of dilution/1000 sq. ft. evenly with penetration of litter surface. Also apply thoroughly to walls, roosts, cracks and crevices. Spray birds as above. Treat roosters carefully to avoid reinfestation of breeding flocks.
Roost Paint	Lice & Mites	1 gal. in 25 gal. or 5 oz. in 1 gal.	Apply 1 pt. of dilution/100 ft. of roost area with brush or spray.
Poultry Buildings	Powl Tick (Blue Bug)	1 gal. in 25 gal. or 5 oz. in 1 gal.	Apply 1 gal. of dilution/100-150 sq. ft. to thoroughly cover walls, ceilings, floors, cracks and crevices using high pressure spray.

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Premise Use Directions for Poultry and Livestock Facilities

Use	Insect	Dilution Ravap in Water	Remarks
Residual Surface Spray	Flies, Litter Beetles	1 gal. in 25 gal. or 5 oz. in 1 gal.	Apply 1 gallon of dilution/500-1000 sq. ft. to thoroughly cover walls, ceilings or other areas where pests rest or congregate in dairy barns, poultry houses, swine buildings, livestock sheds and other farm buildings. Extreme infestations may necessitate increasing the diluted spray to one gallon per 12 1/2 gal.
		1 gal. in 12.5 gal. or 10 oz. in 1 gal.	
Larvicide	Maggots (fly larvae)	1 gal. in 25 gal. or 5 oz. in 1 gal.	Apply 1 gal. of dilution/100 sq. ft. of droppings as a coarse spray. Repeat at 7-10 day intervals until droppings begin to cone up, then treat only "hot spots" (small areas found to have large number of maggots). Do not spray manure where runoff to soil or water can occur. Do not spray animals directly with this concentration.

Statement of Practical Treatment

If swallowed - Call a physician or Poison Control Center immediately. If possible, vomiting should be induced under medical supervision. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.
If inhaled - Remove victim to fresh air. Apply artificial respiration if necessary.
If on skin - Remove contaminated clothing and wash skin immediately with soap and water.
If in eyes - Flush eyes with plenty of water. Call a physician immediately.
Note to physician - If signs of cholinesterase inhibition are observed, atropine is antidotal and may be administered in conjunction with 2-PAM (Pralidoxime Chloride). Product may cause aspiration pneumonia. Gastric lavage may be indicated if product was taken internally.

Precautionary Statements
Hazards to Humans and Domestic Animals
Danger

Corrosive, causes eye damage, causes skin irritation. Do not get in eyes (including animals), on skin or on clothing. Wear goggles or face shield and rubber gloves; long-sleeved shirt and pants; shoes and socks when handling.
Harmful if inhaled. Avoid breathing spray mist.
Harmful or fatal if swallowed. Wash thoroughly after using and before smoking or eating. Avoid contamination of food.

Environmental Hazards

This product is toxic to fish, birds and other wildlife. Drift and runoff may be hazardous to aquatic organisms in adjacent areas. Do not apply directly to water or wetlands. Do not contaminate water when disposing of equipment washwater.

Physical and Chemical Hazards

Do not use, pour, spill or store near heat or open flame.

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Storage and Disposal

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

Pesticide Storage - Store in original container only. Store at temperatures above 32° F. Do not store above 120° F for an extended period of time.

Pesticide Disposal - Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or reprints 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 Disposal - Triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or by other approved State and local procedures.

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.