

Reason For Issue: For submission to EPA.
Revise precaution statement and Dairy %
application use and deletion of Xylene
as active.

Date Issued: 2-10-84

Prev. Date Issued: 2-3-84

Front Panel



PURINA®
BRAND

EPA Reg. No. 602-301

RESIDUAL LIVESTOCK INSECTICIDE (3-Row Checkerband)®
(R.L.I.)

LIVESTOCK SPRAY, BACKRUBBER, RESIDUAL SURFACE SPRAY, LARVICIDE
ROOST PAINT, POULTRY SPRAY, RECREATIONAL TICK AND FLEA SPRAY.

EMULSIFIABLE INSECTICIDE

Controls HORN FLIES, LICE, and LONE STAR TICKS on BEEF CATTLE
and LACTATING DAIRY CATTLE and LICE on SWINE. Aids in control of FACE FLIES.
Controls NORTHERN FOWL MITES, CHICKEN MITES, FOWL TICKS and
LICE on CHICKENS. (No tissue or milk withdrawal)

ACTIVE INGREDIENTS:

# 2-chloro-1-(2,4,5-trichlorophenyl) vinyl dimethyl phosphate	24.0%
# INERT INGREDIENTS	76.0%
	100.0%

KEEP OUT OF REACH OF CHILDREN

DANGER

See Side Panel For Additional Caution Statements

FOR AGRICULTURAL USE ONLY - - - - -

--(Same Min. type size
as "KEEP OUT OF
REACH OF CHILDREN"
statement.)

NET 32 FL OZ (1 QT) D-5453

Manufactured By
RALSTON PURINA COMPANY
General Offices
Checkerboard Square
St. Louis, Missouri 63164

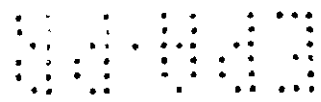
ACCEPTED
with COMMENTS
EPA Letter Dated:

AUG 13 1984

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, this product is
registered under EPA Reg. No.
602-301

NET 32 FL OZ
PURINA® RESIDUAL LIVESTOCK
BRAND
INSECTICIDE

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PRECAUTIONARY STATEMENTS

HAZARD TO HUMANS AND DOMESTIC ANIMALS

DANGER

Corrosive, causes eye damage and skin irritation. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling.

May be fatal if swallowed. Avoid breathing spray mist. Wash thoroughly after handling and before eating or smoking. Avoid contamination of feed and foodstuffs. Keep away from heat and open flame. Do not apply in dwellings.

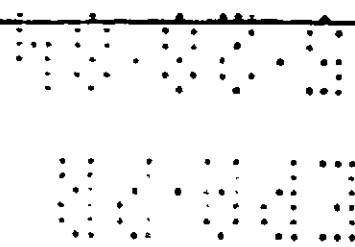
STATEMENT OF PRACTICAL TREATMENT

- If Swallowed: Call a physician or Poison Control Center immediately. Promptly drink a large quantity of milk, egg whites, gelatin solution or, if these are not available, drink large quantities of water. Avoid alcohol. (1) (2) (3) (4)
- If Inhaled: Move to fresh air. Call a physician if indicated.
- If On Skin: Wash thoroughly with soap and water. Rinse thoroughly.
- If In Eyes: Wash with plenty of water for at least 15 minutes and call a physician.

ENVIRONMENTAL HAZARD

This product is toxic to fish. Keep out of lakes, streams or ponds. Do not contaminate water by cleaning of equipment or disposal of wastes.

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DIRECTIONS FOR USE

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It is a violation of federal law to use this product in a manner inconsistent with its labeling.

PURINA® RESIDUAL LIVESTOCK INSECTICIDE is suitable for use in conventional power or low pressure knapsack sprayers and mechanical or pour-on rubbing devices. Follow the DIRECTIONS FOR USE for the proper percent solution needed for a specific insect problem and use. Refer to the DILUTION TABLE for quantity of insecticide needed at the percent solution recommended. There is no withholding period from last application to slaughter.

DIRECTIONS FOR BEEF AND LACTATING DAIRY CATTLE AND SWINE USE

Animal	Insect	Use	% Solution	Remarks
Beef	Horn Flies, Face Flies, Lice in- cluding Tail Lice	Livestock Spray	0.30%	Apply as coarse spray. Use between 1/2 to 1 gallon of spray per animal, depending on size and hair-coat.
	Lone Star Ticks		0.5%	
Lactating Dairy Cattle	Horn Flies, Face Flies, Lice in- cluding Tail Lice	Livestock Spray	0.04%	Apply as coarse spray. Use 1/2 gallon of spray per animal.
Beef and Lactating Dairy Cattle	Horn Flies, Face Flies	Backrubber	1.0%	Mix with #2 diesel oil or any approved back- rubber base oil. Keep backrubber charged.
Swine	Lice	Livestock Spray	0.5%	Apply as coarse spray using 1 to 2 quarts per head to thoroughly wet the animal. Repeat in 2 weeks if required.

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DILUTION TABLE

Amount of PURINA® RESIDUAL LIVESTOCK INSECTICIDE	Amount of Water			Amount of Oil* (1.0% Solution)
	(0.04% Solution)	(0.30% Solution)	(0.5% Solution)	
Pint	74.5 gals	10 gals	6 gals	3 gals
Quart	149.0 gals	18 gals	12-1/2 gals	6 gals
Gallon	595.0 gals	75 gals	50 gals	25 gals

NOTE: Agitate mixture thoroughly before application.

DIRECTIONS FOR POULTRY USE

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To Control	Type Housing	Strength To Use	Application	Remarks
Lice and Mites	Wire Cages	0.5%	1 gal./100 birds	Apply directly to birds, spray vent and fluff areas from below. Repeat when necessary. Do not repeat more often than every 14 days. For individual bird treatment, apply 1 ounce of the mixture per bird.
<p>NOTE: For maximum lasting control of the northern fowl mite, penetration of the feathers around the vent area is absolutely essential. Use power sprayer at 100-125 psi at NO LESS THAN RECOMMENDED RATE. More attention must be given each individual bird when using low-pressure equipment. Treat roosters carefully and thoroughly to avoid reinfestation in breeding flocks.</p>				
	Floor Management Litter	0.5%	1-2 gal./1000 sq. ft.	Apply evenly for penetration to litter surface. Also apply thoroughly to walls, roosts, cracks, crevices and interiors. Spray birds lightly.
	Roost Paint	1.0%	1 pt./100 ft.	Treat with brush or spray thoroughly, particularly cracks and crevices. Wear protective gloves.
Fowl Tick (Blue Bug)	All Types	1.0%	1 gal./100-150 sq. ft.	Apply thoroughly to walls, ceiling, floors, cracks and crevices with a power sprayer.
Flies Residual	All Types	1.0%	1 gal./500-1000 sq. ft.	Apply thoroughly to point of runoff to walls, ceilings, and where flies congregate and feed. Do not apply to the birds.
Larvicide	Wire Cages	1.0%	1 gal./100 sq. ft. of droppings	A thorough coverage and penetration is essential for initial control.
<p>NOTE: Regardless of the condition of the droppings apply enough spray to penetrate and kill the larvae. Less spray will be required thereafter provided a regular schedule is followed.</p>				

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DILUTION TABLE

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Concentration	Amount of Water			
	1 Gallon	5 Gallons	25 Gallons	100 Gallons
Amount of PURINA [®] RESIDUAL LIVESTOCK INSECTICIDE 0.50% Concentration	3 ozs.	13 ozs.	2 quarts	2 gallons
Amount of PURINA [®] RESIDUAL LIVESTOCK INSECTICIDE 1.00% Concentration	6 ozs.	26 ozs.	4 quarts	4 gallons

NOTE: Agitate mixture thoroughly before application.

DIRECTIONS FOR RESIDUAL SURFACE AND LARVICIDE

Residual Surface Spray: Mix 1 gallon of PURINA[®] RESIDUAL LIVESTOCK INSECTICIDE in 25 gallons of water (1% concentration) and apply as an over-all application to ceilings and walls of dairy barns, livestocksheds, calf barns, hog barns and other farm buildings. Other areas where flies congregate, such as around garbage dumps and corrals, should be sprayed thoroughly. Repeat applications as fly populations warrant. Extreme infestations may necessitate increasing the dosage to 2 gallons PURINA[®] RESIDUAL LIVESTOCK INSECTICIDE per 25 gallons of water. Applications should be made to the point of run-off. One gallon of spray should treat 500 to 1000 sq. ft. of surface area.

Larvicide: Mix 1 gallon of PURINA[®] RESIDUAL LIVESTOCK INSECTICIDE with 25 gallons of water (1% concentration) and apply 1 gallon of solution for every 100 square feet of droppings under poultry on wire or in cages, or apply around manure, or garbage.

DILUTION TABLE

Concentration	Amount of Water		
	1 gal.	5 gal.	25 gal.
Amount of PURINA [®] RESIDUAL LIVESTOCK INSECTICIDE for Residual Fly Control at 1.0%	6 oz.	26 oz.	1 gal.
Amount of PURINA [®] RESIDUAL LIVESTOCK INSECTICIDE for Larvicide Cleanup at 1.0%	6 oz.	26 oz.	1 gal.

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**DIRECTIONS FOR RECREATIONAL AREA
TICK & FLEA SPRAY**

Apply as course spray to infested areas of campgrounds, backyards, picnic areas, recreational parks, and other outdoor living areas. Do not spray trees, bushes, or ornamentals. Do not enter area while spray is wet.

Insect	Use	% Solution	Remarks
Ticks Fleas Chiggers	Spray	0.5%	Spray infested areas thoroughly (approx. 25 gals. of mixed solution/acre). Spray along foot paths and roadsides leading to such areas.

DILUTION TABLE

<u>Amount of PURINA[®] RESIDUAL LIVESTOCK INSECTICIDE</u>	<u>Amount of Water (0.5% Solution)</u>
1 pint	6.25 gallons
1 quart	12.5 gallons
2 quarts	25 gallons
1 gallon	50 gallons

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STORAGE AND DISPOSAL

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

PESTICIDE DISPOSAL: Pesticide wastes are toxic. 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 DISPOSAL: Triple rinse (or equivalent). Then dispose of in a sanitary landfill, or by other approved state and local procedures.

QUALITY CONTROLLED BY PURINA RESEARCH

EPA Est. No. 602-MO-1

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Printed in U.S.A.

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306/126492
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13 AUG 1984

306/126491
18/ 3

Mr. Robert Broyles
Ralston Purina Company
Checkerboard Square
St. Louis, MO 63164

Dear Mr. Broyles:

Subject: Amendments - Change Signal Word, Add Dairy Cattle,
Add Recreation Areas, Add Poultry Uses
Purina Residual Livestock Insecticide
EPA Registration No. 602-301
Your Submissions Dated May 22 and June 7, 1984

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) is acceptable, provided that you make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

1. Add as the last sentence of the "If swallowed" advice: "Do not induce vomiting or give anything by mouth to an unconscious or convulsing person."
2. In the Hazards to Humans and Domestic Animals section (note addition of "S" to Hazard) revise "Corrosive, causes eye damage and skin irritation" to "Corrosive, causes irreversible eye damage. Causes skin irritation."
3. In the same section, after "Wash thoroughly after handling and before eating or smoking" add "Remove contaminated clothing and wash before reuse."
4. Add a "Note to Physician" to read "Contains a high percentage of light petroleum distillate, but probable mucosal damage may contraindicate the use of gastric lavage. If symptoms of cholinesterase inhibition are present, atropine is antidotal. 2-PAM is also antidotal and may be used in conjunction with atropine."

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CONCURRENCES							
SYMBOL ▶							
SUBNAME ▶							
DATE ▶							

5. Revise Active Ingredients to Active Ingredient since there is only one declared.
6. Revise "See Side Panel For Additional Caution Statements" to "See Side Panel For Additional Precautionary Statements."
7. Please refer to the enclosed type size guide for assistance in selecting the correct print size for the front panel signal word, child hazard warning, and the heading Storage and Disposal.
8. Add "immediately" after "Call a physician" in the "If in eyes" advice.
9. Revise "Keep out of lakes, streams or ponds" to "Do not apply directly to water or wetlands."
10. The product name, Purina Residual Livestock Insecticide, may be misleading as poultry are not commonly considered livestock. A formal amendment to change the product name to something like Purina Residual Livestock and Poultry Insecticide would include this additional use and would be submitted with the revised labels bearing the new name. The addition of the recreational use sites creates its own difficulties related to the product name, especially considering the limitation "For Agricultural Use Only." You may wish to change this to "For Agricultural/Commercial Use Only." It is assumed there will not be marketing to homeowners for this use.
11. Correct the spelling of "coarse" in "coarse spray" in the recreation area directions for use.
12. There is one additional provision related to acceptance of these amendments. The Agency cannot determine from the xylene specification sheet whether the xylene is food grade, i.e., essentially free of polynuclear aromatic hydrocarbons. Please refer to CFR 21 §172 for appropriate tests or submit documentation showing this xylene to be food grade.

Submit five (5) copies of your revised printed labeling and the required information on the solvent before you release the product for shipment with the amended labeling.

A stamped copy of the label is enclosed for your records.

The dermal sensitization study, which has been assigned Accession Number 253514, is acceptable and shows that the product is not a sensitizer. However, for the record, we would like an explanation as to

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why the laboratory used 3 applications at weekly intervals rather than 9 or 10 applications at 2 to 3 day intervals, which is the methodology normally seen in dermal sensitization studies submitted to the Agency.

Sincerely yours,

George T. LaRocca
Product Manager (15)
Insecticide-Rodenticide Branch
Registratic: Division (TS-767)

RD/IRR:LaRocca:DCR-29222:WANG-0073N:eg:Raven:479-2013:8/1/84:Del.8/18/84

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