



65-137-100-1-15-10  
10-13-1993  
file

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

APR 18 1994

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

R.E. (BOB) BROYLES  
PURINA MILLS, INC.  
BOX 66812  
ST LOUIS, MO. 63166

Subject: Label Amendment Submission of 8/23/93 Response to PR Notice 93-7  
EPA Reg. No. 602-59  
PURINA MALATHION SPRAY

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

**WHAT THIS ACCEPTANCE MEANS:**

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

**WHAT YOU NEED TO DO NEXT:**

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.



Recycled/Recyclable  
Printed with Soy/Canola Ink on paper that  
contains at least 50% recycled fiber

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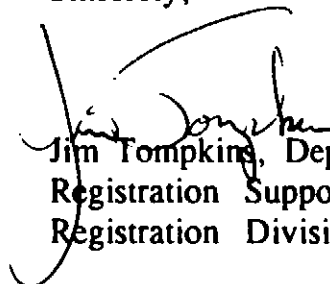
Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs (7505C)  
U.S. Environmental Protection Agency  
401 M Street, SW  
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs  
Room 266A, Crystal Mall 2  
1921 Jefferson Davis Highway  
Arlington, VA 22202

Sincerely,

  
Jim Tompkins, Deputy Chief  
Registration Support Branch  
Registration Division (7505W)

Attachment

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division

R.E. (Bob) Broyles  
PURINA MILLS, INC.  
BOX 66812  
ST LOUIS MO 63166

Comment for: EPA Reg Nr.602-59  
PURINA MALATHION SPRAY

The following specific comments pertain to your WPS labeling submission concerning the product cited above:

Add the following User Safety Recommendation to the label in the location shown in Section A on Part I of the Product Worksheet in Supplement Three-A to PR Notice 93-7: "Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet."

Add the following User Safety Recommendation to the label in the location shown in Section A on Part 1 of the Product Worksheet in Supplement Three-A to PR Notice 93-7: "Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing."

The Agricultural Use Requirements section must be located in a clearly separate box on the product labeling -- with lines or other graphic indicators (such as contrasting color) to separate the section from the surrounding text.

You have incorrect wording in the second-to-last sentence in the first paragraph in the Agricultural Use Requirements box on your proposed label. The sentence must be as follows: "It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval."

You must retain from your original label any statements about entry restrictions that apply to the non-agricultural uses on your product. Create a Non-Agricultural Use Requirements box in the Directions For Use section of your labeling and add the statements: "The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this

11/7

PURINA MILLS, INC.  
EPA Reg. Number: 602-59  
PURINA MALATHION SPRAY  
Application date: 08/23/93  
Original Submission

product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses." Then add to the box the statements that are in brackets [] on your original label. Please refer to the instructions for creating a Non-Agricultural Use Requirements box starting on page 45 of Supplement Three to PR Notice 93-7 (Main Labeling Guidance).

Delete the crossed-out statements on your proposed label. They are redundant statements or phrases.

Correct the typographical errors circled on your proposed label.

Reason For Issue: Changing label to incorporate WPS statements per EPA.

Date Issued: 7/27/93 (Green)  
Prev. Date Issued: 10/19/90  
Document Name: MALATHIO.NG  
UPC Code: 01929801226

Front Panel

(9-Square Logo)

PURINA®  
BRAND

EPA Reg. No. 602-59

Contains  
CYTHION Insecticide  
The Premium Grade  
Malathion

MALATHION SPRAY

For Insect Control

® Reg. Trademark -  
American Cyanamid  
Company

Farm Buildings - Poultry - Livestock - Crops

Stored Grain - Boxcars - Pets - Gardens

(3-Row Checkerband®)

ACTIVE INGREDIENTS:

Malathion: 0,0-dimethyl phosphorodithioate of diethyl mercaptosuccinate ...	54.6%
INERT INGREDIENTS.....	45.4%
	100.0%

Contains xylene range aromatic solvent

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KEEP OUT OF REACH OF CHILDREN  
WARNING AVISO  
SEE BACK PANEL FOR ADDITIONAL WARNINGS

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Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

NET 1 GAL

D-5854

ACCEPTED  
with COMMENTS  
In EPA Letter Dated

(NOTE: Type size will conform with requirements for precautionary labeling.)

MAR 18 1994  
Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. ~~602-59~~

Manufactured By  
PURINA MILLS, INC.  
P.O. Box 66812  
St. Louis, Missouri 63166-6812 U.S.A.

NET 1 GAL

(Not to be printed on label)  
USDA Category F2

**PRECAUTIONARY STATEMENTS****HAZARD TO HUMANS (& DOMESTIC ANIMALS)****WARNING:**

Causes eye irritation. Do not get in eyes, on skin or on clothing. Harmful if swallowed. Avoid breathing spray mist. Wash thoroughly with soap and water after using. Avoid contamination of feed and foodstuffs. Do not use where milk is stored or processed. Do not spray freshly whitewashed surfaces. Avoid contamination of milk, milk equipment and water.

**Personal Protective Equipment:**

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instruction for category F on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear: Coveralls over short-sleeved shirt and short pants  
Chemical resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber or viton  
Chemical-resistant footwear plus socks  
Protective eyewear  
Chemical-resistant headgear for overhead exposure  
Chemical-resistant apron when cleaning equipment, mixing, or loading.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**STATEMENT OF PRACTICAL TREATMENT**

If swallowed, drink glass of water. Call physician immediately. It is preferable to induce vomiting under medical supervision, otherwise induce vomiting by touching finger to back of throat. Never give anything by mouth to an unconscious person.

If in Eyes: Flush with plenty of fresh water. Call physician immediately.

If on Skin: ~~Remove contaminated clothing. Wash thoroughly with soap and water.~~  
~~Wash contaminated clothing before reuse.~~ *delete*

Note to Physician: This product contains a cholinesterase inhibitor. Atropine is antidotal. Aspiration hazard may exist.

This product is an organophosphate insecticide/miticide

**ENVIRONMENTAL HAZARDS****BEST AVAILABLE COPY**

This pesticide is toxic to fish, aquatic invertebrates, and aquatic life stages of amphibians. Do not apply directly to water or wetlands (i.e., swamps, bogs, marshes, and potholes). Drift and runoff may be hazardous to aquatic organisms in areas near the application site. Do not contaminate water when disposing of equipment washwaters.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

Use only with adequate ventilation. After using this product indoors, ventilate thoroughly before occupying enclosed spaces. Do not allow contact with treated surface until sprays have dried.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. **NOTE:** Directions for use of this product are not for aircraft applications.

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.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE). The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber or viton.
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure

### BUILDINGS

**Flies, Mosquitoes, Gnats** - Mix 1 quart of Malathion Spray and 1 quart of syrup or molasses to 12 gallons of water (5 tablespoonfuls each to 1 gallon of water). Spray walls, ceilings, and other surfaces where flies rest to the point of run-off.

**Roaches, Ants, Spiders, Silverfish, Crickets, Clover Mites and Earwigs** - Mix 1/2 pint with 1-1/2 gallons of water (2 tablespoonfuls per 1-1/2 pints). Apply as a coarse spray or with paint brush to window sills, baseboards, under sinks, drainboards, stoves and to other areas where insects hide. Apply to ant trails and areas where ants enter buildings such as window and door sills. Do not contaminate food, dishes, utensils, milk, milk equipment and water. Repeat applications as needed.

### POULTRY

**Chicken Red Mites** - Mix 1 pint to 6 gallons of water (5 tablespoonfuls per gallon). Spray in cracks of wall around roosting areas, in nest boxes, and on roosts. Provide clean litter and nesting material after spraying. Repeat applications as needed.

**Northern Fowl Mites and Lice** - Mix 1 ounce (2 tablespoonfuls) to 1 gallon of water. Apply at the rate of 1 gallon of mixed solution to 100-150 birds. Repeat in 4 to 8 weeks or when necessary.

**Chiggers on Poultry Ranges** - Apply 1 - 1-1/2 pints per acre in sufficient water for good coverage. Make full coverage application 1 day before placing poultry on range. Repeat applications should be made every 2-3 weeks.

### LIVESTOCK

**Beef Cattle, Horses, Hogs, Sheep and Goats:** For control of Horn Flies, Lice, Lone Star Ticks, Winter Ticks, Gulf Coast Ticks, Spinose Ear Ticks, Keds (Sheep Ticks) - Mix 1 gallon to 100 gallons of water (6-1/2 ozs. per 5 gallons of water). Repeat spraying after 2 or 3 weeks if needed.

**Beef Cattle and Horses** - Apply complete coverage spray. For Gulf Coast Ticks and Spinose Ear Ticks apply at low pressure to each ear and to head, neck and shoulder regions. Do not treat calves or foals under one month of age. Do not apply to dairy animals.

**Hogs** - Apply complete coverage spray to animals, pens, and bedding.

**Sheep and Goats** - Spray animals thoroughly. Do not use on milk goats. Do not treat animals under one month of age.

**Rack Rubbing Devices** - (Beef Cattle, Non-Milking Dairy Animals). For reduction of horn flies and lice - mix 1/2 pint ( 8 ozs.) in 2 gallons of fuel oil. Provide 1 rubbing device for each 40 head of cattle. Re-treat every 2 to 3 weeks. Do not use for lactating dairy animals or non-lactating dairy animals within 2 weeks of freshening.

### CROPS

**Forage:** Alfalfa, Clover, Grass Hay, Pasture and Range Grass, Sugar Beet Tops.

**Pests:** Aphids, Alfalfa weevil, Armyworms, Clover leaf weevil, Grasshoppers, Leaf hoppers, Lygus bug - use 1-1/2 - 2 pints per acre in sufficient water for good coverage (25 to 50 gallons per acre). Use higher dosage on taller forage. For clover leaf weevil apply in spring when forage is 2 - 6 inches tall. Do not apply to clover in bloom. For armyworms apply when larvae are small. Apply to alfalfa in bloom only in evening or early morning when bees are not working the field or are not hanging on outside of hives. Repeat as needed.

**Grain:** Barley, Corn, Oats, Rye, Wheat.

**Pests:** Cereal leaf beetle, English grain aphid, Greenbugs, Grasshoppers - use 1-1/2 pints; for armyworms 2 pints per acre. Apply in sufficient water for good coverage. For grasshoppers make full coverage to hatching areas when nymphs are young. Repeat as needed. Do not treat barley, oats, rye, wheat within 7 days, corn within 5 days of harvest.

**Soybeans:** Mexican bean beetle - use 1-1/2 - 2 pints per acre. Spray under surface of leaves when beetles appear. Treat soybeans in bloom only when bees are not visiting plants. Repeat as needed. Do not treat soybeans within 3 days of harvest.

### STORED GRAIN

**For a residual wall and floor spray:** Clean elevators, bins, trucks, boxcars, and ships holds thoroughly. Remove and burn all sweepings and debris. Apply 1 quart of Malathion Spray in 6 gallons of water making thorough application. For the protection of stored grains such as wheat, oats, rice, corn, rye, barley, grain sorghum and field or garden seeds against confused flour beetle, rice weevil, granary weevil, saw-toothed grain beetle, flat grain beetle, red flour beetle, rusty grain beetle, lesser grain borer and Indian meal moth - apply 1 pint of Malathion Spray in 2 - 5 gallons of water per 1000 bushels. Apply as the grain is being loaded or turned into final storage.

**Surface Treatment:** To protect stored grains from attack by Indian meal moth, apply Malathion Spray at the rate of 1/2 pint in 1 to 2 gallons of water for each 1000 square ft. of grain surface area. Apply the spray evenly over the surface immediately after grain is loaded into storage and repeat if necessary.



**BOXCARS**

For loading and transporting packaged cereals and pet foods; bagged flour and feedstuffs: Clean boxcar thoroughly; remove and burn sweepings and debris. Spray walls and floor to the point of run-off using 1 quart Malathion Spray in 6 gallons of water. Let sprayed boxcar stand empty with doors open until spray is thoroughly dry. Line walls and floor with kraft paper before loading.

**PETS**

To Control Dog and Cat Fleas - Do not use on nursing puppies or kittens. Do not use on animals under one month of age. Mix 1 ounce (2 tablespoonfuls) to 1 gallon of water. Wet animal thoroughly by means of a hand sprayer. If reinfestation occurs, repeat treatment but not more often than once weekly. **FOR ANIMAL QUARTERS** - Old pet bedding should be replaced. Mix 5 ounces (10 tablespoonfuls) to 1 gallon of water. Remove manure or debris before spraying kennels, pens, yards, lawns, and under buildings.

**HOME GARDENS**

Mix 2 teaspoonfuls to 1 gallon of water (1/2 pint in 25 gallons of water). Stir and keep uniformly mixed while spraying. Spray plants thoroughly and repeat as necessary. Do not spray within 7 days of harvest or when plants are in bloom. **Vegetables** - Aphids (Plant Lice), Spider Mites, and Leafhoppers on Tomatoes, Peas, Beans, Potatoes, Cabbage, Cauliflower, Mustard, Peppers, Cucumbers, Squash, Melons, Beets, Spinach; Mexican Bean Beetle on Beans; Imported Cabbage Worm and Cabbage Looper on Cabbage or Cauliflower. **Fruits and Nuts** - Aphids, Red-banded Leaf Roller, Bud Moth, Codling Moth, Plum Curculio, and Mealybug on Apple, Peach, Cherry, Plum, Pear, Pecan, and Grape. Do not apply to Pecans within 60 days of harvest. **Ornamental Shrubs** - Aphids, Spider Mites, Rose Leafhopper, Bagworms, Tent Caterpillars, Birch Leafminer, and Scurfy Scale. Do not spray ferns and crassula.

Do not spray cucurbits unless plants are dry. May cause injury to apples, (McIntosh and Cortland), Grapes, (Ribier, Italia, Cardinal, Almeria) and sweet cherries.

**STORAGE AND DISPOSAL**

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

**Storage:** Store in original container in cool, dry area out of reach of children and animals.

**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.

EPA Est. No. 602-MO-1