

Reason For Issue: For EPA Registration.

Date Issued: 12-21-83

Prev. Date Issued: 6-1-83

175

Front Panel



PURINA[®]
BRAND

EPA Reg. No.: 602-GNU

DEFENDER

(3-Row Checkerboard)

Insecticide Concentrate

For control of lice, horn flies and ticks on beef cattle only and keds on sheep.

Insect	(See Restrictions) Animal Species	Approved Uses
Lice, Horn Flies	Cattle	Concentrated spot application dip, spray, pour-on
Ticks	Cattle	Spray, dip
Keds	Sheep	Concentrated spot application pour-on

ACTIVE INGREDIENTS:

Chlorpyrifos, 0,0-diethyl 0-(3,5,6-trichloro-2-pyridyl) phosphorothioate . 25.00%

INERT INGREDIENTS: 75.00%
100.00%

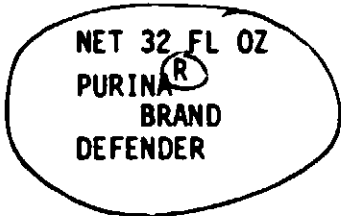
KEEP OUT OF REACH OF CHILDREN

WARNING

SEE BACK PANEL FOR ADDITIONAL CAUTIONS

D-2572

NET 32 FL OZ (1 QT)



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

175-209
Registered under EPA Reg. No. 602-GNU as amended, for the control of lice, ticks, and keds on beef cattle and sheep. Under the Federal Insecticide, Fungicide, and Rodenticide Act.
FEB 1984
EPA
REGISTERED

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS

MAY BE FATAL IF SWALLOWED - MAY BE ABSORBED THROUGH SKIN - MAY BE INJURIOUS TO EYES AND SKIN

Do Not Take Internally - Do Not Get in Eyes or on Skin - Wear Rubber Gloves When Handling - Wash Thoroughly After Handling - Wash Contaminated Clothing Before Reuse - Avoid Breathing Vapors

STATEMENT OF PRACTICAL TREATMENT

If Swallowed - Do not induce vomiting - Call a physician immediately. If on Skin - In case of contact, remove contaminated clothing and immediately wash skin with soap and water. If in Eyes - Flush eyes with plenty of water and get prompt medical attention.

Note To Physician and Veterinarian - Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. Atropine only by injection is an antidote.

ENVIRONMENTAL HAZARDS

This product is toxic to fish, birds and other wildlife. Keep out of any body of water. Do not apply where runoff is likely to occur. Do not contaminate water by cleaning of equipment or disposal of wastes.

PHYSICAL OR CHEMICAL HAZARDS

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

Side Panel

DIRECTIONS FOR USE

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

Purina Defender Insecticide Concentrate is a convenient "one shot" treatment to provide season-long control of biting and sucking lice. Purina Defender Insecticide Concentrate is not effective against cattle grubs. Cattle may be treated during any season of the year for lice and horn fly control. Purina Defender Insecticide Concentrate provides for control of horn flies up to 6 weeks.

As a Spray for Cattle:

(Mixing Ratio)		
PURINA		
BRAND		
DEFENDER		
<u>Insecticide Concentrate</u>	Added to	<u>WATER</u>
1/2 ounce		4.25 gallons
1 ounce		8.50 gallons
2 ounces		17.00 gallons
4 ounces		34.00 gallons
8 ounces		68.00 gallons
16 ounces		136.00 gallons

Be careful to treat around the eyes, in ears, and directly to belly. It may be necessary to pen or crowd animals to ensure complete treatment of ears and other sensitive areas. Spray animals with 3/4 - 1 gallon of solution to thoroughly saturate the hair. Spray at 200 to 400 psi to assure good penetration.

As a Dip for Cattle:

<u>DEFENDER</u>	<u>WATER</u>
1/4 gallon (32 ounces)	212 gallons
1/2 gallon (64 ounces)	525 gallons
1 gallon (128 ounces)	1,050 gallons

HOW TO USE

DIP TREATMENT:

1. Clean vat thoroughly before filling with water.
2. Measure water into vat or measure the vat before filling and calculate the number of gallons of water needed to fill it. Record the various levels.
3. After filling vat with water, add Purina DEFENDER at the rate of 1/2 gallon to each 525 gallons of water.
4. Agitate the dip solution thoroughly prior to each use to assure uniform treatment.

Replenishment of Dip Solution

1. During the dipping operation replenish dip solution as required at the rate of 1/2 gallon DEFENDER to 315 gallons of water.
2. Between dippings a loss of liquid is recorded by evaporation, add water only to raise to previous level.
3. If flooding has occurred between dippings. Add DEFENDER at the rate of 1/2 gallon to 315 gallons for the excess water that has run into the vat.

Maintenance of Dip Solution

Maintain the dip solution as clean as possible by cleaning the race and draining pens regularly. Immediately prior to each dipping operation, agitate the dip solution thoroughly, paying particular attention to the jump-in end. Use adequate mixing equipment.

NOTE: Care should be taken when dipping young calves to prevent injury or drowning.

Be sure free access to drinking water is available to animals prior to dipping. Do not dip excessively thirsty animals.

As a Spot Treatment for Cattle and Sheep: (No mixing required.)

<u>ANIMAL WEIGHT</u>	<u>AMOUNT OF PURINA[®] DEFENDER INSECTICIDE CONCENTRATE BRAND APPLIED/ANIMAL</u>
50 lb	1.5 cc
100 lb	3.0 cc
200 lb	6.0 cc
400 lb	12.0 cc
500 lb	15.0 cc
600 lb	18.0 cc
700 lb	21.0 cc
800 lb	24.0 cc
over 800 lb	24.0 cc

HOW TO APPLY: Sheep should be treated at shearing time. Wearing rubber gloves, and in a well ventilated area, pour the required dose of Purina Defender in one spot to the top midline area of the animal, just behind the blades and neck junction. Due to the small amount of material required, care must be taken to apply the proper dose.

As a Pour-On for Cattle and Sheep:

<u>(Mixing Ratio) PURINA[®] BRAND DEFENDER Insecticide Concentrate</u>	<u>added to</u>	<u>WATER</u>	<u>RATE OF APPLICATION</u>
1 ounce		9 ounces	Pour on each animal at the rate of 1 ounce solution per 100 pounds body weight.
2 ounces		18 ounces	
3 ounces		27 ounces	
4 ounces		36 ounces	

How to Apply:

Wearing rubber gloves, and in a well ventilated area, pour the required dose of PURINA DEFENDER along the top midline area of the animal starting at the shoulder blades and neck junctions and work towards tail. Due to the small amount of material required, care must be taken to apply the proper dose.

STORAGE AND DISPOSAL

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

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then dispose of in a sanitary landfill or by other approved state and local procedures.

USE PRECAUTIONS

Use on beef cattle only

DO NOT TREAT

- . Bulls over 8 months of age of any breed
- . Dairy breed cattle of any age
- . Purebred continental or exotic breed cattle such as Simmental, Chianina, Charolais or Gelbvieh
- . Cows within 21 days prior to or 14 days after calving
- . Veal calves
- . Beef-bred calves under 12 weeks of age

Do not treat sick, convalescent or severely stressed animals.

Do not treat cattle for 10 days before or after shipping, dehorning, castration, vaccination, etc.

Do not slaughter cattle with 14 days of initial treatment. If reinfestation does occur, animals may be re-treated according to the following schedule: (1) 45 days after initial treatment with a 14 day withdrawal prior to slaughter or (2) 30 days after initial treatment with a 21 day withdrawal prior to slaughter. Do not re-treat animals within less than 30 days.

SHEEP

DO NOT TREAT

- . Lambs weighing LESS than 50 lbs.

Do not slaughter sheep within 35 days of treatment.

DO NOT RETREAT.

Purina Defender contains a cholinesterase inhibitor. Do not use any drug or other pesticidal chemical having cholinesterase inhibiting activity, either simultaneously or within 45 days before or after treatment with Purina Defender.

The solvent system in Purina Defender evaporates quite rapidly which may cause a cold sensation to the animal at the site of application. This may manifest itself as a very mild transitory irritation to the animal.

Do not brand animals with a hot iron while treating with Purina Defender. The solvent system is combustible and could cause a serious burn to the animal(s).

QUALITY CONTROLLED BY PURINA RESEARCH

EPA Est. No. 602-MO-1

U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES PROGRAMS
REGISTRATION DIVISION (WH-567)
WASHINGTON, D.C. 20460

NOTICE OF PESTICIDE: REGISTRATION
 REREGISTRATION
(Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended)

EPA REGISTRATION NO.
692-364

DATE OF ISSUANCE
2/21/84

TERM OF ISSUANCE

NAME OF PESTICIDE PRODUCT

Purina Defender

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Purina Company
5000 Lindenwood Square
St. Louis, MO 63164

NOTE: Changes in labeling formula 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 U.S. EPA registration number.

On the basis of information furnished by the registrant, the Administrator has determined that the product is registered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is retained herewith.

Registration is in no way to be construed as an endorsement or approval of this product by this 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.

This product is conditionally registered in accordance with FIFRA sec. 2(c)(2) in order that you:

1. Submit to the Agency all data required for registration/reregistration under FIFRA sec. 2(c)(2) when the Agency requires such data; and

2. Submit to the Agency all data required for registration/reregistration under FIFRA sec. 2(c)(2) when the Agency requires such data.

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

DATE

603-304

-2-

- c. Revise your "Environmental Hazards" paragraph to read:

This product is toxic to fish, birds and other wildlife. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes.

- d. Add the restriction "Dip treatment is limited to 6 applications at 21-day intervals per season."

- e. On the front panel of your label change the statement "See back panel for additional caution" to read "See back panel for additional precautions."

3. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the 2-79 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.

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

Jay S. Ellenberger
Product Manager (12)
Insecticide-Rodenticide Branch
Registration Division (75-767)

Enclosures

RD/IRB:DCR-28474:J.Ellenberger:pjb:Raven:557-2226:RD-12:2/16/84:Del.3/4/84