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OCT 15 1986

Mr. R.E. Broyles  
Purina Mills, Inc.  
800 Chouteau Avenue  
St. Louis, MO 63164

Dear Mr. Broyles:

Subject: Revised Labeling and Product Chemistry Data  
Unicorn Delnav Livestock Spray  
EPA Registration No. 602-190  
Your Amended Application Dated November 6, 1985

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

1. For product chemistry:

- a. The storage stability, <sup>protocol submitted is</sup> ~~data submitted are not~~ acceptable. Therefore, you must submit within 15 months from the date of this letter storage stability data in which the formulated product is analyzed for its active ingredient at time zero and during a year of storage. ~~Please note that for the storage stability study, you cannot reference the concentrate you are using to formulate your product.~~
- b. The viscosity must be expressed in centipoise or centistokes.
- c. The corrosion characteristics should be noted during the storage stability period.
- d. Miscibility - please note these characteristics since this product is an emulsifiable liquid and mixed with oil.

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CONCURRENCES

SYMBOL							
SURNAME							
DATE							

2. In regard to the revised labeling, you must:

a. Delete "at least 15 minutes" from the Statement of Practical Treatment. The statement should read:

If in Eyes: Flush eyes with plenty of water.  
Call a physician if irritation persists.

b. Add the statement, "Recommended for Agricultural Use Only."

Submit five (5) copies of your final printed labeling before you release the product for shipment.

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

Sincerely yours,

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

Enclosure

REASON FOR ISSUE.  
For EPA Approval. Adding  
additional Precautionary Statements.

Date Issued: 11/18/85 (Green) <sup>3 of 6</sup>

Prev. Date Issued: 5/2/85 <sup>15</sup>



® \*

FRONT PANEL

PURINA® \*  
BRAND

EPA Reg. No. 602-190

STOCK SPRAY-D

(3-Row Checkerband® \*)

Contains Delnav \*\*

Kills . . . . Horn Flies, Ticks, Lice, Sheep Keds

ACTIVE INGREDIENTS:

Dioxathion 2,3-p-dioxanedithiol S,S-bis (0,0-diethyl) phosphorodithioate) . . . . .	11.9%
Related compounds . . . . .	5.0%
INGREDIENTS . . . . .	83.1%
	<u>100.0%</u>

\*\*Registered Trademark of NOR-AM Chemical Company

KEEP OUT OF REACH OF CHILDREN

WARNING

See Back Panel For Additional Precautions

NET 32 FL OZ (1 QT)

D-9021

(Note: Type size and  
prominence will conform  
with requirements for  
precautionary labeling).

Manufactured By  
PURINA MILLS, INC.  
800 Chouteau Avenue  
St. Louis, Missouri 63164 U.S.A.

APPROVED  
with COMMENTS  
By EPA  
602-190

NET 32 FL OZ  
PURINA® \* STOCK SPRAY-D  
BRAND

\*Trademark of Raiston Purina Company

PRECAUTIONARY STATEMENTS  
HAZARD TO HUMANS AND DOMESTIC ANIMALS  
WARNING

PURINA® \* STOCK SPRAY-D AND ITS DILUTIONS MAY BE FATAL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN OR EYES. RAPIDLY ABSORBED THROUGH SKIN. REPEATED INHALATION OR SKIN CONTACT MAY, WITHOUT SYMPTOMS, PROGRESSIVELY INCREASE SUSCEPTIBILITY TO INSECTICIDE POISONING.

Do not swallow or get in eyes, on skin, or on clothing. Do not breathe spray mist. Avoid exposure to vapors.

# Wear clean natural rubber gloves, clean protective clothing, and goggles. Replace gloves frequently and destroy used gloves. Wear a mask or respirator of a type approved by the Mine Safety and Health Administration or the National Institute for Occupational Safety and Health for organic phosphorus insecticide protection. Wash thoroughly with soap and water after handling and before eating, smoking or chewing tobacco. If the material gets into the eyes, immediately flush with water for at least 10 minutes and get medical attention. In case of contact, remove all contaminated clothing and wash skin with soap and water; wash clothing before re-use. Keep all unprotected humans or beneficial animals out of operational area.

Do not contaminate water, feed or foodstuffs. Do not use on dairy animals or in dairy barns.

Do not treat animals under 3 months of age. Do not dip or spray foals. Do not apply to dairy goats. Do not apply to sick, convalescent or stressed animals. Symptoms of overdosage may include frequent defecation and urination, watering of eyes and muscular weakness. At the first sign of adverse reactions, consult a veterinarian and thoroughly wash animals to remove excess dip or spray.

# Do not apply Stock Spray-D to Brahaman/Zebu breeds as they may be less tolerant than other cattle to organophosphate insecticides. Do not use Stock Spray-D on calves less than 3 months of age.

IMPORTANT: Do not treat pets with this product.

NOTE: Warning! Avoid skin and eye contamination when handling strong caustic solutions.

STATEMENT OF PRACTICAL TREATMENT

If Swallowed: Drink one or two glasses of water and induce vomiting by touching the back of the throat with finger. Repeat until vomit fluid is clear. Call a physician immediately. Do not induce vomiting or give anything by mouth to an unconscious person.

If Inhaled: Remove the victim to fresh air. Apply respiration if indicated.

If on Skin: Remove contaminated clothing and wash affected areas with soap and water.

If in Eyes: Flush eyes for at least 15 minutes with water. Call a physician if irritation persists.

NOTE TO PHYSICIAN

WARNING SYMPTOMS: Symptoms include weakness, headache, tightness in chest, blurred vision, non-reactive pin-point pupils, salivation, sweating, nausea, vomiting, diarrhea and abdominal cramps.

(Continued....)

NOTE TO PHYSICIAN- Continued

TREATMENT: Give 2 to 4 mg (1/30 to 1/15) grain atropine sulfate intravenously. Repeat at 5 to 10 minute intervals until signs of atropinization appear (dry, flushed skin and tachycardia). If excessive secretions occur, keep patient fully atropinized by giving atropine every hour up to 25 to 50 mg in one day. If patient fails to respond satisfactorily to atropine, give 1 gram of 2-PAM intravenously.

Artificial respiration and oxygen administration may be necessary. Decontaminate skin, stomach and eyes as indicated. A mild degree of atropinization should be maintained for 24-48 hours and the patient should be observed continuously for 48 hours and treated symptomatically.

ENVIRONMENTAL HAZARDS

This product is toxic to fish, birds and other wildlife. Keep off of lakes, streams and ponds. Do not contaminate water by cleaning of equipment or disposal of wastes. Apply this product only as specified on this label.

PHYSICAL AND CHEMICAL HAZARDS

Mix the concentrate in water or oil out of doors or in a well ventilated room. Wash any spillage off the outside of the container of concentrate with running water before storing away in a safe place. Mix only the amount of spray that will be used immediately. DO NOT USE, POUR, SPILL OR STORE NEAR HEAT OR OPEN FLAME.

In case of spillage, wash down with large amounts of water. Decontaminate areas and equipment by washing with concentrated solutions of alkali and detergent and rinse with water.

DIRECTIONS FOR USE

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

SPRAY OR DIP

For the Control of	Horn Flies	Lice	Lone Star Tick	Winter Tick	Gulf Coast Tick	Spinose Ear Tick	Cattle Fever Tick	Sheep Keds
Beef Cattle	x	x	x	x	x	x	x	
Hogs		x	x		x	x		
Sheep and Goats		x	x		x	x		x

Mixing Directions:

Mix 1 quart of PURINA®\* Stock Spray-D in 25 gallons of water. (2-1/2 tablespoonfuls to 1 gallon of water) for either spraying or dipping.

Use Directions:

Mix spray or dipping vat solutions thoroughly before using; keep well mixed while spraying or dipping animals. Refill dipping vats at indicated rates when fresh water must be added. Clean out entire vat when solution becomes filthy. Do not spray animals confined in closed buildings. Do not repeat treatment more often than every two weeks. Do not spray horses or mules.

Use Directions: - Continued

Dioxathion is a cholinesterase inhibitor. Do not use this product on animals simultaneously with or within a few days before or after treatment with any cholinesterase inhibiting drug, pesticide or chemical. Atropine is antidotal.

CATTLE: (Horn Flies, Lice, Ticks) Apply 2 quarts of spray solution per cow; use proportionally less for calves. For Gulf Coast Ticks and Spinose Ear Ticks, apply at low pressure to ears and to head, neck and shoulder regions. WARNING: Water animals before treating to prevent drinking of vat solution or run-off. Prevent oral ingestion. Do not allow young animals to swallow by nursing or licking the insecticide solution on treated animals. Do not treat calves less than 3 months of age. Do not treat dairy animals.

SHEEP AND GOATS: (Lice, Ticks, Sheep Keds) Thoroughly spray animals after spring shearing using low pressure. Use high pressure to penetrate fleece during fall treatment. Wet animals thoroughly when dipping. Do not treat dairy goats.

HOGS. (Lice, Ticks) Spray entire animal so as to thoroughly wet the skin. Do not treat sows within 2 weeks of farrowing or while nursing.

CATTLE BACK RUBBER  
HORN FLY CONTROL \* AIDS IN LICE CONTROL

Mixing Directions: Mix 1 quart of PURINA Stock Spray-D in 10-1/2 quarts of No. 2 fuel oil or diesel fuel oil.

Use Directions: Pour mixed solution into oil reservoir or apply to burlap or other rubbing surfaces until saturated. Replenish the unit as needed. Do not spray or pour oil solution on animals.

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.

PRECAUCION

AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

(English translation)

CAUTION

(TO THE USER: If you cannot read English, do not use this product until the label has been fully explained to you.)

EPA Est. No. 602-MO-1

QUALITY CONTROLLED BY PURINA RESEARCH

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Printed in U.S.A.