

PLI 15-28,093-100 1/6

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FEB 27 1987

Mr. H.R. McLane  
7210 SW. 57th Avenue, Suite 212A  
Miami, FL 33143

Dear Mr. McLane:

Subject: Amendment - Revised Draft Labeling and Product Chemistry  
DDVP 2-E Emulsifiable Concentrate  
EPA Registration No. 5481-205  
Your Letter Dated July 22, 1986

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable. A stamped copy is enclosed for your records.

We have enclosed a revised Confidential Statement of Formula Form. *fy*  
*Subs. we note your intentions to submit 1 yr. Storage stability study.*  
Sincerely yours,

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

Enclosures

91930:Newkirk:LR-15:KENCO:1/14/87:1/26/87:NeeCee:VO

CONCURRENCES							
SYMBOL ▶							
SURNAME ▶							
DATE ▶							



**DDVP 2-E EMULSIFIABLE  
CONCENTRATE**

FOR INDUSTRIAL - COMMERCIAL USE ONLY

<b>ACTIVE INGREDIENTS:</b>	
2,2-Dichlorovinyl dimethyl phosphate* . . . . .	22.90%
Related Compounds* . . . . .	1.72%
<b>INERT INGREDIENTS**</b> . . . . .	<b>75.38%</b>
<b>Total</b>	<b>100.00%</b>

\*Equivalent to 24.62% DDVP Insecticide or 2 lbs. per gallon  
\*\*Contains xylene range aromatic solvent.

KEEP OUT OF REACH OF CHILDREN

SKULL & DANGER X-BONES (red ink)	- P O I S O N -  P E L I G R O	SKULL & X-BONES (red ink)
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"PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta haya sido explicado ampliamente"

STATEMENTS OF PRACTICAL TREATMENTS

IF SWALLOWED: Call a physician or Poison Control Center immediately. Gastric lavage is indicated if material was taken internally. DO NOT INDUCE vomiting unless other treatment is not available. Vomiting may cause aspiration pneumonia. If it is necessary to induce vomiting give victim one or two glasses of water & insert finger in back of throat. Repeat until vomit fluid is clear. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person.

IF INHALED: Remove victim to fresh air. Give artificial respiration if needed. Get medical attention immediately.

IF ON SKIN: Remove contaminated clothing and wash affected area immediately with soap and water. Call a physician immediately.

IF IN EYES: Immediately flush eyes with plenty of water. Call a physician immediately.

NOTE TO PHYSICIAN: POISONING SYMPTOMS -If signs of cholinesterase inhibition (weakness, headache, chest tightness, blurred vision, salivation, sweating, nausea, vomiting or abdominal cramps) occur, atropine by injection is antidotal. 2 PAM is also antidotal and may be administered in conjunction with atropine. See back panel for additional information.

SEE SIDE BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

EPA REG. NO. 5481-205

EPA EST. NO. 5481-CA-1

NET CONTENTS 30 GALLONS

MADE IN U.S.A.

**AMVAC CHEMICAL CORPORATION**  
4100 EAST WASHINGTON BLVD  
LOS ANGELES CA 90023

FEB 27 1987

Acute Toxicity  
 Irritation  
 Environmental  
 Registered Pesticide  
 Reg. No. 5481-205

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER:** Poisonous if swallowed, inhaled or absorbed through the skin or eyes. Do not get in eyes or on skin. Do not breathe fumes. Rapidly absorbed through skin. Wear natural rubber gloves, water-proof protective clothing and goggles when handling. Wear a pesticide respirator jointly approved by the Mine Safety and Health Administration and by the National Institute for Occupational Safety and Health under the provisions of 30 CFR Part 11.

**NOTE TO PHYSICIAN - - - POISONING SYMPTOMS**

Symptoms include weakness, headache, tightness in chest, blurred vision, non-reactive pin point pupils, salivation, sweating, nausea, vomiting, diarrhea, and abdominal cramps. **TREATMENT** - Atropine is the specific therapeutic antagonist of choice against parasympathetic nervous stimulation. If there are signs of parasympathetic stimulation Atropine Sulfate should be injected at 10 minute intervals in doses of 1 to 2 milligrams until complete atropinization has occurred. Morphine is contraindicated. 2 PAM is also antidotal and may be administered in conjunction with Atropine. Clear chest by postural drainage. Repeated exposure to cholinesterase inhibitors may without warning cause prolonged susceptibility to very small doses of any cholinesterase inhibitor. Allow no further exposure until time for cholinesterase regeneration has been allowed as determined by a blood test.

**ENVIRONMENTAL HAZARDS**

This product is toxic to fish, birds, and other wildlife. Do not apply directly to water. Do not apply where run-off is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of wastes. This pesticide is highly toxic to bees exposed to direct treatment or to residues remaining on treated area. Do not apply when bees are visiting ornamentals, weeds, or other vegetation blooming in the treatment area. Applications should be timed to provide the maximum possible interval between treatment and the next period of bee activity.

**PHYSICAL OR CHEMICAL HAZARDS**

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

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For Industrial - Commercial Use Only.

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal. **STORAGE:** Store product in original container in a cool, dry, locked place out of reach of children. **PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. 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 nearest State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA regional office for guidance. **CONTAINER DISPOSAL:** [Metal] Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State & local authorities. [Plastic] Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned stay out of smoke.

**NOTICE:** This product conforms to its chemical description and is reasonably fit for the purpose stated on the label, when used in accordance with directions under normal conditions of use. Manufacturer is not responsible for the use of this product contrary to the label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to the manufacturer and/or seller and the buyer assumes the risk of any such use.

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INDOOR PEST CONTROL

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SPRAYING

Households, Restaurants, Theaters, Food Processing Plants, Industrial Plants, Warehouses:

INSECTS - Flies, Mosquitoes, Wasps, Gnats, Flying Moths, and other small flying insects. Cockroaches, Ants, Spiders, and Silverfish.

MIXING RATE - Use a 0.5% Spray Solution by mixing 1 pint of this product with 6 gallons of water.

HOW TO APPLY - Apply 0.5% spray with a low pressure sprayer to localized areas insects may infest. Treat areas around baseboards, cracks, walls, door and window frames, and localized areas of floors. Do not apply to areas which will be contacted frequently by children and do not allow them in treated areas until surfaces are dry. Do not contaminate food, water, food containers or cooking utensils. Do not treat animals. Do not use in edible products areas of food process-plants, restaurants or other areas where food is commercially prepared or processed. Do not use in serving areas while food is exposed.

FOGGING & MISTING

Food Processing Plants, Industrial Plants, Theaters, Warehouses, (Space Spray Only):

INSECTS - Fleas, Ants, Roaches and Silverfish.

MIXING RATE - Use a 1.0% Fogging or Misting Solution by mixing 1 quart of this product with 6 gallons of water or 7 gallons of deodorized base kerosene.

HOW TO APPLY - Apply with fogging or misting equipment at the rate of 1 gallon of 1 % fogging solution per 64,000 cubic feet for control of Flies. When fogging for control of Roaches, Ants, and Silverfish, the fog should be directed into cracks and crevices and hiding places. Apply when plants are not in operation. Occupants should vacate before indoor treatments and should not reoccupy the premises until they have been ventilated. After application open several windows and doors to create air currents to insure reduction of the insecticide vapors. Food should be removed and food handling equipment covered with wrapping paper before application or washed with a suitable cleaning compound and potable water after the application is completed.

PRECAUTIONS WHEN FOGGING OR SPRAY MISTING. Wear a pesticide respirator jointly approved by the Mine Safety and Health Administration and by the National Institute for Occupational Safety and Health under the provisions of 30 CFR Part 11.

NOTE: The solvent and other ingredients in this product may stain certain plastic, rubber, asphalt and/or carpeted floor coverings. DO NOT TREAT NOR ALLOW THIS PRODUCT TO COME IN CONTACT WITH SUCH SURFACES OF FLOORS, CARPETS OR RUGS SINCE DAMAGE MAY OCCUR.

OUTDOOR PEST CONTROL

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FOGGING & MISTING

Outdoor Living Areas, Picnic Areas, Backyard Areas, Patios, Loading Docks, Outdoor Latrines, Parking Areas, Refuse Areas around Service Stations, Open air Drive-ins, Ice Cream Stands, Garbage Collection & Disposal Areas.

INSECTS - Flies, Mosquitoes, Gnats.

MIXING RATE - Use a 1% Fogging or misting solution by mixing 1 quart with 6 gallons of water or 1 quart with 7 gallons of diesel oil.

HOW TO APPLY - Apply the 1% fogging solution with fogging apparatus or mist blowers at the rate of 5 to 10 pints per acre, equivalent to 0.05 to 0.1 pound DDVP insecticide per acre. Do not treat areas where food or feed crops are growing.

## OUTDOOR PEST CONTROL (Cont.)

AS A SPRAY - For the control of Flies, Gnats, Mosquitoes, Roaches, Fleas, Ants, Sowbugs, and Brown Dog Ticks use a 0.5% spray solution by mixing 1 pint of this product with 6 gallons of water or 1 pint in 7 gallons of diesel oil. Apply as a coarse wet spray at the rate of 1 quart per 1,000 sq. ft. Do not treat animals or humans. Do not contaminate water, food, food containers or cooking utensils. Repeat as necessary.

This product may be used as a 1% to a 3% fog or mist solution to control Flies, Mosquitoes, Wasps, Gnats & other small flying insects in outdoor areas.

### MANURE PILES, GARBAGE DUMPS

For the control of Fly Maggot breeding areas apply at the rate of 1 to 2 quarts of 0.5% spray solution per 100 Sq. Ft. (Use 1 quart of 1% Solution).

### DOG KENNELS

Apply to outside dog runways, window sills and ledges at the rate of 1 quart of 0.5% spray solution per 1,000 Sq. Ft. For the control of Fleas, and Brown Dog Ticks increase dosage to 2 quarts of 0.5% spray per 1,000 Sq. Ft. NOTE: Remove dogs and cover or remove feed and water before treating.

### ANIMAL BUILDINGS

Horse Barns, Dairy Barns, Shelter Sheds, Milk Sheds, Pig Pens, Outdoor Areas

AS A SPRAY - INSECTS - Flies, Gnats, Mosquitoes, Roaches, Fleas, Ants, Sowbugs, and Brown Dog Ticks.

IMPORTANT - Applicator should wear an approved respirator when using this product indoors and should vacate the area after treatment. See Precautions.

MIXING RATE - Use a 0.5% spray solution by mixing 1 pint of this product with 6 gallons of water. Apply as a coarse wet spray at the rate of 1 quart per 1,000 Sq. Ft.

HOW TO APPLY - Before applying in enclosed areas, reduce air movement as much as possible by closing doors, windows and other openings. Spray around doorways, feed storage rooms alleyways and window sills. Do not contaminate milk or milking utensils. Do not treat animals or humans. Do not contaminate water, feed or foodstuff. Repeat as necessary. Animals may be present during treatment. In poultry houses apply to manure, window sills, outside of penned enclosures and on floor of feed storage rooms.

AS A FOG - INSECTS - Flies, Gnats, Mosquitoes.

IMPORTANT PRECAUTIONS: Remove animals before fogging. Applicator must not remain in treated area. Start application at far end of building and backup toward exit while treating. Keep area closed for at least 10 minutes to kill resting adult flying insects. After treatment the area should be opened up and ventilated prior to reoccupying by humans or animals.

MIXING RATE - Use a 0.5% to 1.0% fogging solution by mixing 1 pint of this product with 7 gallons diesel oil for 0.5% & for 1.0% dilute 1 quart per 7 gallons of diesel oil.

HOW TO APPLY - Apply with fogging or misting equipment at the rate of 1 quart of the 0.5% solution or 1 pint of the 1.0 % solution per 8,000 Cubic Feet. Before applying reduce air movement as much as possible by closing doors, windows, and other openings. Do not contaminate water, feed or foodstuffs, milk or milking utensils. Do not use in areas where animals have received direct applications of DDVP within 8 hours.

### CATTLE FEED LOTS, STOCKYARDS, HOLDING PENS, CORRALS

INSECTS - Flies, Gnats, Mosquitoes.

MIXING RATE - Use a 0.5% DDVP solution by mixing 1 pint of this product with 6 gallons of water.

**CATTLE FEED LOTS ETC. (Cont.)**

**HOW TO APPLY** - Apply with a Mist Blower or other suitable equipment as an overall application at the rate of 0.2 pounds of Technical DDVP per acre (Approximately 5 gallon of the 0.5% solution). Particular attention should be given to areas where flies congregate such as fences, spillage areas, around feed bunks, and walls of building. Animals may be present during treatment. Avoid direct application to exposed feed and water.

**DAIRY AND BEEF CATTLE APPLICATIONS**

**AS A SPRAY** - INSECTS - Horn Flies, Stable Flies, Face Flies, House Flies, Mosquitoes.

**MIXING RATE** - Use a 1.0% DDVP solution by mixing 1 quart of this product with 6 gallons of water.

**HOW TO APPLY** - Apply 2 fluid ounces per animal as a mist daily with hand or an automatic sprayer. Spray to cover all parts of the animal, including the legs but do not wet the skin.

Do not apply in excess of 2 fluid ounces per animal per day. This may be made in two application of one ounce in morning and one ounce in the evening. For Horn Flies, direct the spray to the back line, withers, and belly. For Face Flies spray the forehead taking care to avoid getting spray in eyes.

**IMPORTANT PRECAUTIONS:** Do not apply to young calves under 6 months old. After treating Dairy Cattle, wash the teats with an approved cleaning solution and then dry them prior to milking. Do not treat sick or convalescing animals. Do not treat Brahman or Brahman-Cross cattle, as they may show hypersensitivity to organophosphate insecticides. Do not apply dermally in conjunction with Trichlorfon and do not use on animals simultaneously or within a few days before or after treatment with, or exposure to, cholinesterase inhibiting drugs, pesticides or chemicals.

**FOR BAITED SOLUTION,** sugar may be added at the rate of 1 pound per gallon of the 1.0% solution. To use for control of Face Flies apply approximately 3 ml of this to the forehead of the animal by making a single 6 inch stroke with a paint brush. Treat in morning while dairy animals are in the barn.

**TOBACCO WAREHOUSES**

**AS A FOG** - INSECTS - Cigarette Beetles, and Tobacco Moths in a closed warehouse storing unfinished tobacco only.

**MIXING RATE** - Use a 2% fogging solution by mixing 2 quarts of this product with 7 gallons of odorless oil or other oil solvents used for diluting insecticides for fogging. Solvents must be non-flammable and known to be safe for use in tobacco warehouses.

**HOW TO APPLY** - Apply the 2% fogging solution at a rate of 19 to 38 ounces per 10,000 cubic feet (10 to 20 grams of DDVP per 10,000 Cu.Ft.). Make applications as often as necessary to maintain control. Prepare the warehouse for treatment by closing all doors, windows, and ventilators. Lock or barricade all entrances, post warning signs and take whatever precautions are necessary under the circumstances to prevent unprotected humans or domestic animals from entering area.

It is generally desirable to make the applications in the late afternoon in order that the warehouse can be closed all night. All work in the warehouse must be suspended while warehouse remains closed. Workmen may enter the warehouse the morning after treatment after the area has been adequately ventilated. The fogging apparatus and operator should remain outdoors and the fog directed into the warehouse. Operator must wear a full face mask. See precautionary Statement. Operator must wear gloves and be clothed to protect neck and all other skin surfaces.