



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

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

September 21, 2012

Ms. Kelly Naujock  
Amvac Chemical Corporation  
4695 MacArthur Court, Suite 1250  
Newport Beach, CA 92660

Subject: Amended Reregistration Label  
Product Name: DDVP 2-E Emulsifiable Concentrate  
EPA Registration Number: 5481-205  
EPA Decision Number: 393461

Dear Ms. Naujock:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the reregistration of the referenced product in connection with the Dichlorvos RED and has concluded that your submission is acceptable.

NOTE: This product is not being reregistered under sections 3(c)5 and 4(g) of FIFRA at this time.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on non-refillable containers. The code may appear either on the label or durably marked on the container itself, and can be added by non-notification per PRN 98-10.

Please note that the record for this product currently contains the Confidential Statements of Formulation (CSFs) listed below. Any previously dated CSFs are superseded.

- Basic CSF, dated 4/18/2012

A copy of your label stamped "Accepted" is enclosed along with copies of the acute toxicity and product chemistry reviews completed for the subject product. Products shipped after 12 months from the date of this amendment or the next printing of the label whichever occurs first, must bear the new revised label. Your release for shipment of the product bearing the amended label constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e).

If you have any questions about this letter, please contact Dana Pilitt, Ph.D. at (703) 305-7071 or via e-mail at [pilitt.dana@epa.gov](mailto:pilitt.dana@epa.gov) .

Sincerely,



✓ Mark Suarez  
Product Manager (13)  
Insecticide Branch  
Registration Division (7504P)

*Enclosures: Label stamped "Accepted", dated September 21, 2012  
Acute Toxicity Review, dated October 22, 2009  
Product Chemistry Review, dated May 1, 2012*

**RESTRICTED USE PESTICIDE**

**Due to Primary Eye Irritation Toxicity Category**

For retail sale to and use only by certified applicators or persons under their direct supervision and only for those uses covered by the certified applicator's certification.



**ACCEPTED**  
**SEP 21 2012**  
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. **5481-205**

**FOR AGRICULTURAL/COMMERCIAL USE ONLY.**  
**NOT FOR SALE FOR ANY OTHER USES.**

**DDVP 2-E**  
**EMULSIFIABLE CONCENTRATE**

**ACTIVE INGREDIENT:**

2,2-Dichlorovinyl dimethyl Phosphate]\* ..... 25%

**INERT INGREDIENTS:** ..... 75%

**TOTAL: 100%**

\*Equiv. to 24.62% DDVP Insecticide or 2 lbs. / gal.  
(Contains Xylene range aromatic solvent) (Contains Petroleum Distillates)

**KEEP OUT OF REACH OF CHILDREN**



**DANGER - POISON PELIGRO - VENENO**



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.)

**FIRST AID**

**CONTAINS AN ORGANOPHOSPHATE THAT INHIBITS CHOLINESTERASE**

<b>IF IN EYES</b>	<ul style="list-style-type: none"> <li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF SWALLOWED</b>	<ul style="list-style-type: none"> <li>Immediately call a poison control center or doctor.</li> <li>Do not induce vomiting unless told to by a poison control center or doctor.</li> <li>Do not give any liquid to the person.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>
<b>IF ON SKIN OR CLOTHING</b>	<ul style="list-style-type: none"> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF INHALED</b>	<ul style="list-style-type: none"> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>Call a poison control center or doctor for further treatment advice.</li> </ul>

**NOTE TO PHYSICIANS:**

Probable mucosal damage may contraindicate the use of gastric lavage. Contains petroleum distillate. May pose an aspiration pneumonia hazard.

**EMERGENCY INFORMATION**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**FOR THE FOLLOWING EMERGENCIES, PHONE 24 HOURS A DAY:**

For Medical Emergencies, phone: ..... 1-888-681-4261

For Transportation Emergencies, including spill, leak or fire, phone: CHEMTREC..... 1-800-424-9300

For Product Use Information, phone: AMVAC..... 1-888-462-6822

SEE SIDE/BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND DIRECTIONS FOR USE

EPA Reg. No. 5481-205

Net Contents: 30 Gallon

EPA Est. No. 5481-CA-1



4100 E. Washington Blvd. Los Angeles, CA 90023 U.S.A

1-888-462-6822

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**DANGER**

**HAZARDS TO HUMAN AND DOMESTIC ANIMALS**

Corrosive. Causes irreversible eye damage. May be fatal if swallowed. May be fatal if absorbed through skin. Harmful if inhaled. Do not get in eyes, on skin or on clothing.

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMAN AND DOMESTIC ANIMALS**

**DANGER:** Poisonous if swallowed, inhaled or absorbed through the skin. Rapidly absorbed through skin. Repeated inhalation or skin contact may, without symptoms, progressively increase susceptibility to DICHLORVOS-(DDVP) poisoning. Do not swallow or get in eyes, on skin, or on clothing. Do not breathe vapors. Do not contaminate food or feed products.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Some materials that are chemical-resistant to this product are Barrier Laminate, Butyl Rubber, Nitrile Rubber and Neoprene Rubber.. If you want more options, follow the instructions for category "C" on an EPA chemical resistance category selection chart in the worker protection standard.

Mixers, loaders, applicators and other handlers must wear:

- protective eyewear (goggles, faceshield, or safety glasses)
- coveralls over a long-sleeved shirt and long pants,
- shoes and socks, and

-chemical-resistant gloves (such as barrier laminate or Viton, selection category G)

-a NIOSH-approved respirator with: --an organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approved number prefix TC 23C) or, --a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G) or, -- an organic-vapor removing cartridge or canister with any N,R,P or HE prefilter.

When mixing and loading wear a chemical resistant apron.

For overhead exposure wear a chemical resistant apron.

When cleaning equipment add a chemical resistant apron.

**USER SAFETY REQUIREMENTS**

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this products concentrate. Do not reuse them.

**USER SAFETY RECOMMENDATIONS**

User should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

User should remove clothing/PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS**

This product is toxic to fish, birds, and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash-waters or rinsate.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollution Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office at the EPA.

Do not apply where run-off is likely to occur. Do not apply when weather conditions favor drift from areas treated. 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**

Combustible. Do not use or store the product near heat or open flame.

**DIRECTIONS FOR USE  
RESTRICTED USE PESTICIDE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. NOTE: Do not treat more than 5 application sites per day and do not make DDVP applications more than once per week.

**REI and Early Entry PPE**

NOTIFICATION: Before the start of the application, post fumigant warning signs at all entrance to the building. The signs must bear the skull and crossbones symbol and state: (1) "DANGER/PELIGRO," (2) "Building under fumigation, DO NOT ENTER/NO ENTREE," (3) the date and time of fumigation, (4) "DDVP Fumigant in use." And name, address, and telephone number of the applicator. The signs must be located prominently at each entrance, using a sign size and letter size that makes the sign clearly legible. All signs must be removed after the ventilation is complete and before routing entry by unprotected persons is permitted.

Entry by any person -- other than a correctly trained and equipped handler who is performing a task related to ventilation or air concentration monitoring and who is wearing the personal protective equipment required for handlers -- is PROHIBITED in the entire enclosed structure/building from the start of the application until ventilation is complete. Ventilation is complete *either* when 24 hours have elapsed following application and the building has been opened and aired *or* when a direct-indication short-term concentration monitoring device (e.g. Draeger tube) indicates that the DDVP air concentration is equal to, or less than 0.050 ppm (50% of the OSHA PEL).

- Do not enter or allow others to enter until sprays have dried.
- Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only handlers wearing specified PPE may be in the area during application.
- Use in hand held flogger or hand held smoke generator equipment is prohibited.
- Use in residential sites as a crack and crevice or spray space is prohibited.
- Use on lawns, turf or ornamentals is prohibited.

**OUTDOOR PEST CONTROL  
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, 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. **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. Do not apply with hand-held fogging or misting equipment.

**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 Hazards To Humans & Domestic animals paragraph.

**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 & floor feed storage rooms.

**AS A FOG**

**INSECTS** – Flies, Gnats, Mosquitoes.

**IMPORTANT PRECAUTIONS:** Remove animals before fogging. Applicator must not remain in treated area. Do not apply with hand-held fogging or misting equipment. 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 non-hand-held 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 by mixing 1 pint of this product with 6 gas of water.

**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). Do not apply with hand-held fogging or misting equipment. 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 gals. of water.

**HOW TO APPLY** – Apply 2 fl. oz. of mix per animal as a mist daily an automatic sprayer. Do not apply with hand-held fogging or misting equipment. 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 applications 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.

**STORAGE AND DISPOSAL**

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

**PESTICIDE 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 and Plastic] Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. After cleaning, if recycling is not available, puncture and dispose of in a sanitary landfill or by incineration or if allowed by State and local authorities by burning. If burned, stay out of smoke.

**LIMITED WARRANTY AND DISCLAIMER**

The manufacturer warrants (a) that this product conforms to the chemical description on the label; (b) that this product is reasonably fit for the purposes set forth in the directions for use, subject to the inherent risks referred to herein, when it is used in accordance with such directions; and (c) that the directions, warnings, and other statements on this label are based upon responsible experts' evaluations of reasonable tests of effectiveness, of toxicity to laboratory animals and to plants and residues on food crops, and upon reports of field experience. Tests have not been made on all varieties of food crops and plants, or in all states or under all conditions.

**THERE ARE NO EXPRESS WARRANTIES OTHER THAN THOSE SET FORTH HEREIN. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE, TO MAKE ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE, OR ANY WARRANTY OF QUALITY OR PERFORMANCE. THIS WARRANTY DOES NOT EXTEND TO, AND THE BUYER SHALL BE SOLELY RESPONSIBLE FOR, ANY AND ALL LOSS OR DAMAGE WHICH RESULTS FROM THE USE OF THIS PRODUCT IN ANY MANNER WHICH IS INCONSISTENT WITH THE LABEL DIRECTIONS, WARNINGS OR CAUTIONS.**

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AMVAC offers this product, and Buyer accepts it, subject to the foregoing Limited Warranty which may be varied only by agreement in writing signed by an authorized representative of AMVAC.

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