



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

June 30, 2015

Ms. Kelly K. Rahn  
AMVAC Chemical Corporation  
4695 MacArthur Court, Suite 1200  
Newport Beach, CA 92660

Subject: Label Amendment – Registration Review Mitigation on Indoor Fogging  
Product Name: DDVP 5% Emulsifiable Concentrate  
EPA Registration Number: 5481-220  
Application Date: January 19, 2015  
Decision Number: 499291

Dear Ms. Rahn:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. The next label printing of this product must use this labeling unless subsequent changes have been approved. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance

Page 2 of 2  
EPA Reg. No. 5481-220  
Decision No. 499291

with FIFRA section 6. If you have any questions, please contact Carlyn Petrella by phone at 703-347-0439, or via email at [petrella.carlyn@epa.gov](mailto:petrella.carlyn@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "Gebken", written in a cursive style.

Richard Gebken  
Product Manager 10  
Invertebrate & Vertebrate Branch 2  
Office of Pesticide Programs

Enclosure

# Restricted Use Pesticide

Due to primary eye irritation. 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.

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



# DDVP 5%

## EMULSIFIABLE CONCENTRATE

**\*INDOOR & OUTDOOR PEST CONTROL \*ANIMAL BUILDINGS & FEED LOTS  
\*DAIRY & BEEF CATTLE \*MUSHROOM HOUSES**

Silos and Bulk Bins, Food/Feed Processing Plants, Food/Feed Manufacturing, Handling and Storage Plants and Non-Food/Feed Areas of Processing and Manufacturing Plants

**ACCEPTED**

06/30/2015

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under

EPA Reg. No. 5481-220

### ACTIVE INGREDIENT:

Dichlorvos [2,2-Dichlorovinyl dimethyl phosphate] ..... 5.00%

**INERT INGREDIENTS:\***..... 95.00%

**Total:**..... 100.00%

This product contains 0.35 pound of DDVP per gallon.

\*Contains xylene range aromatic solvent.

**KEEP OUT OF REACH OF CHILDREN**



**DANGER — PELIGRO**

**POISON**



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

Organophosphate

<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>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Do not induce vomiting unless told to do so 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 an 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>

### 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

#### NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage. Contains petroleum distillates. May pose an aspiration pneumonia hazard. NOTE TO PHYSICIAN -- POISONING SYMPTOMS: This product is a cholinesterase inhibitor. Symptoms include weakness, headache, tightness in chest, blurred vision, non-reactive pinpoint 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 cholinesterase regeneration has been allowed as determined by blood test.

SEE CONTAINER LABEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND DIRECTIONS FOR USE

EPA Reg. No. 5481-220

EPA Est. No. 5481-CA-1

NET CONTENTS: \_\_\_\_\_



4100 E. Washington Blvd. Los Angeles, CA 90023 U.S.A.  
1-888-462-6822

#### PRECAUTIONARY STATEMENTS

##### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. Corrosive. Causes irreversible eye damage. Harmful if swallowed. Do not get in eyes or on clothing. Avoid contact with skin.

##### Personal Protective Equipment (PPE)

Mixers, Loaders, Applicators and other handlers must wear:

- protective eye wear (goggles or faceshield),
- long-sleeved shirt, long pants, shoes, socks,
- chemical resistant gloves (barrier laminate or Viton®),
- chemical resistant headgear for overhead exposure,
- chemical resistant apron required for mixing/loading and cleaning equipment,
- a NIOSH-approved respirator with either an organic vapor-removing cartridge with a pre-filter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or an organic vapor-removing cartridge with any N, R, P, or HE prefilter.

##### USER SAFETY REQUIREMENTS

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

##### USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove 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 apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water when disposing of equipment wash-waters or rinsate. 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.

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 Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to the 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 of the EPA.

### Physical or Chemical Hazards

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

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### DIRECTIONS FOR USE

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Restricted Use Pesticide.

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

#### RESTRICTIONS:

- Do not apply this product in a way that will contact workers or other persons, either directly or through drift.
- Do not enter or allow others to enter until sprays have dried.
- Only protected handlers wearing specified PPE may be in the area during application. When applying as a fog or mist indoors, equipment must be operated remotely. Handlers may not be present in an indoor area being fogged or misted during application.
- Do not apply this product through any type of irrigation system.
- Use in hand held fogger or hand held smoke generator equipment is prohibited.
- Use in residential sites as a crack and crevice or space spray is prohibited.
- Use on lawns, turf or ornamentals is prohibited.
- **USE IS PROHIBITED IN:**
  - **Food/feed manufacturing establishments:** bottling plants (including wineries, breweries, soft drinks), frozen food/feed (including pizza plants and ice cream plants) excluding non-food/feed manufacturing areas.
  - **Food/feed processing establishments:** meat, poultry and seafood slaughtering and/or packing plants (including edible fats and oils), frozen food/feed plants (including fruit and vegetables), dairy product plants (including milk processing plants) excluding non-food/feed processing areas.

### 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) and restricted-entry interval. These requirements only apply to uses of this product that are covered by the Worker Protection Standard.

**NOTIFICATION:** Before the start of the application, notify workers of the application by warning them orally and by posting fumigant warning signs at all entrances 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 ENTRE", (3) the date and time of fumigation, (4) "DDVP {or use brand name} Fumigant in use", and name, address, and telephone number of the applicator. Post the fumigant warning sign instead of the WPS sign for this application, but follow all WPS requirements pertaining to location, legibility, size, and timing of posting and removal.

Do not apply this product to a greenhouse or mushroom house that is attached to another structure, including another greenhouse or mushroom house, unless the greenhouse or mushroom house to be treated is entirely sealed off from the other structures.

A trained pesticide handler with immediate access to the PPE that this labeling requires for applicators must maintain constant visual or voice contact with any handler who is applying this

product in a greenhouse or mushroom house or who enters the treated building before the ventilation is complete to perform any handling task.

Entry (including early entry that would otherwise be permitted under the WPS) by any person - other than a correctly trained and equipped handler who is performing a handling task permitted by the WPS and wearing the personal protective equipment required for handlers -is PROHIBITED in the entire greenhouse or mushroom house (entire enclosed structural building) from the start of application until ventilation is complete in the greenhouse or mushroom house. 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). A trained pesticide handler with immediate access to the PPE that this labeling requires for applicators must maintain constant visual or voice contact with any handlers entering the treated building before the ventilation is complete.

For Greenhouses: If ventilation is complete before 12 hours have elapsed following application (e.g., Draeger tube reading), then a restricted-entry interval of 12 hours is in effect. Do not enter or allow workers to enter during the restricted-entry interval of 12 hours. Early entry as permitted by the Worker Protection Standard is permitted provided:

- the fumigant warning sign is removed, and
- the following personal protective equipment is worn: coveralls, shoes and socks, and waterproof gloves.

For Mushroom Houses: If ventilation is complete before 18 hours have elapsed following application (e.g., Draeger tube reading), then a restricted-entry interval of 18 hours is in effect. Do not enter or allow workers to enter during the restricted-entry interval of 18 hours. Early entry as permitted by the Worker Protection Standard is permitted provided:

- the fumigant warning sign is removed, and
- the following personal protective equipment is worn: coveralls, shoes and socks, and waterproof gloves.

### Non-Agricultural Use Requirements

These requirements apply to uses of this product NOT in the scope of the Worker Protection Standard for agricultural pesticides, 40 CFR part 170. The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, and greenhouses. Keep children, pets, and other unprotected persons out of treated areas until sprays have dried.

NOTIFICATION: Before the start of the application, post fumigant warning signs at all entrances 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 ENTRE", (3) the date and time of fumigation, (4) "DDVP {or use brand name} 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 routine 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 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).

### INDOOR PEST CONTROL

Re-entry Restrictions – Do not allow people or pets to enter the treated area until sprays have dried.

#### **SPRAYING -Households, Industrial Plants, Warehouses (non-food storage).**

NON-FOOD AREAS: Includes garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets, and storage (after canning or bottling).

For flies, mosquitoes, wasps, gnats, small flying moths, other small flying insects, cockroaches, ants, spiders, and silverfish.

**MIXING RATE-** Use a 0.5% spray solution by mixing 1 quart of this product with 2 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, 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 hospitals or clinical rooms, such as patient rooms, wards, nurseries, operating or emergency areas.

-Do not use in any rooms where infants, or the sick or aged are, or will be present, for any extended period of confinement.

-Do not use in food handling areas of restaurants, or areas where food is prepared or served.

-Do not use in food processing plants.

-Do not use to treat non-perishable bagged and/or bulk stored raw or processed agricultural commodities.

**FOGGING OR MISTING** - Industrial Plants, Warehouses, Silos and Bulk Bins, Food/Feed Processing Plants, Food/Feed Manufacturing, Handling and Storage Plants and Non-Food/Feed Areas of Processing and Manufacturing Plants

**USE IS PROHIBITED IN:**

- ***Food/feed manufacturing establishments:*** bottling plants (including wineries, breweries, soft drinks), frozen food/feed (including pizza plants and ice cream plants) excluding non-food/feed manufacturing areas.
- ***Food/feed processing establishments:*** meat, poultry and seafood slaughtering and/or packing plants (including edible fats and oils), frozen food/feed plants (including fruit and vegetables), dairy product plants (including milk processing plants) excluding non-food/feed processing areas.

For flies, ants, roaches and silverfish

**MIXING RATE** - Make a 1.0% fogging or misting solution by mixing 1 gal. with 3 1/2 gals. of water or 4 1/2 gals. of deodorized base oil. Apply at the rate of 1 gallon of 1% fogging solution per 64,000 cubic feet (1 pint per 8,000 cubic feet). When fogging for control of roaches, ants and silverfish, the fog should be directed into hiding places.

For stored product insects including Indianmeal moth, red flour beetle, confused flour beetle, sawtoothed grain beetle, merchant grain beetle, cigarette beetle, drugstore beetle and granary weevil apply 0.8 to 1.6 fluid ounces of undiluted product per 1,000 cubic feet. One pint of product will treat 10,000 to 20,000 cubic feet. Keep a minimum of a 7-day interval between applications except on cocoa beans and raw (unshelled) peanuts where daily applications do not exceed 0.4 fluid ounce of product per 1,000 cubic feet of head space.

**HOW TO APPLY-** Applicator must exit area to be treated prior to operating fogging or misting equipment remotely. Apply with remotely operated fogging or misting equipment at the rates given above. When using in food processing, handling and storage areas: A. Apply only when the building being treated is unoccupied, not in operation and when no food products are exposed. If bulk, unpackaged foods are exposed, remove or cover before treatment begins. B. All food processing surfaces should be covered during treatment or thoroughly cleaned before using. Buildings treated must be closed and ventilation kept at a minimum during application. Lock all entrances and do not allow workers to enter buildings during treatment. Do not allow unprotected workers to enter buildings during ventilation. **NOTIFICATION:** Before the start of the application, post fumigant warning signs at all entrances to the building as directed in the Non-Agricultural Use Requirements box. Do not make applications when temperatures are below 60°F. After application, open several windows and doors to create air currents to ensure reduction of the insecticide vapors.

**NOTE:** The solvent and/or the active 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.**

## ANIMAL BUILDINGS

**Horse Barns, Dairy Barns, Shelter Sheds, Milk Sheds, Piggens. NOT FOR USE IN OR AROUND RESIDENTIAL SITES.**

### AS A SPRAY

For flies, gnats, mosquitoes, roaches, fleas, ants, sowbugs and brown dog ticks. **IMPORTANT:** Applicator must wear an approved respirator when using this product indoors and must vacate the area after treatment. See Hazards to Humans and Domestic Animals paragraph.

**MIXING RATE:** Use a 0.5% spray solution by mixing 1 quart of this product in 2 gallons of water.

**HOW TO APPLY:** Apply as a coarse wet spray at the rate of 1 quart per 1,000 sq. ft. 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 floor of feed storage rooms.

### AS A FOG OR MISTING

For flies, gnats, and mosquitoes.

**IMPORTANT PRECAUTIONS:** Remove animals before fogging. Applicator must exit area to be treated prior to operating fogging or misting equipment remotely. 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. Ventilation is complete either when 24 hours has 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).

**MIXING RATE:** Use a 0.5% to 1.0% fogging solution by mixing 1 quart of this product with 2.4 gallons of diesel oil for 0.5% and for 1.0% dilute 1 gallon per 4.3 gallons of diesel oil.

**HOW TO APPLY:** Apply with remotely operated 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.

## OUTDOOR PEST CONTROL

**FOGGING & MISTING** -Outdoor 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 and disposal areas. Use on turf, lawns and ornamentals is prohibited.

For flies, mosquitoes, and gnats

**MIXING RATE-** Use a 1.0% fogging or misting solution by mixing 1 gallon in 3 1/2 gallons of water or 4 1/2 gallons of #2 light mineral oil, vegetable oil, or 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, which is equivalent to 0.05 to 0.1 pound of DDVP insecticide per acre. Do not treat where food or feed crops are growing. Use in a way to minimize drift onto sensitive areas. Do not treat more than 5 application sites per day and do not make DDVP applications more than once per week.

**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 quart of this product in 2 gallons of water.

Apply as a coarse, wet spray at the rate 1 quart per 1,000 sq. ft. Do not treat animals or humans. Do not contaminate water, food, food containers or cooking utensils. Applications may be repeated monthly or as needed. Do not treat more than 5 application sites per day and do not make DDVP applications more than once per week. This product may be used as a 1% solution to control flies, mosquitoes, wasps, gnats & other small flying insects in outdoor areas.

## MANURE PILES, GARBAGE DUMPS

For the control of fly maggots in 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). **NOT FOR USE IN OR AROUND**



RESIDENTIAL SITES. For garbage dumps, do not treat more than 5 application sites per day and do not make DDVP applications more than once per week.

### **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. NOT FOR USE IN OR AROUND RESIDENTIAL SITES. Do not treat more than 5 application sites per day and do not make DDVP applications more than once per week.

### **ANIMAL BUILDINGS**

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

#### **NOT FOR USE IN OR AROUND RESIDENTIAL SITES.**

**AS A SPRAY-** –For flies, gnats, mosquitoes, roaches, fleas, ants, sowbugs and brown dog ticks.

**MIXING RATE** – Use a 0.5% spray solution by mixing 1 quart of this product with 2 gallons of water.

**HOW TO APPLY** – Apply to building surfaces as a coarse, wet spray at the rate of 1 qt. per 1,000 sq. ft. 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 foodstuffs. Applications may be repeated 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.

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

#### **NOT FOR USE IN OR AROUND RESIDENTIAL SITES.**

For flies, gnats, mosquitoes.

**MIXING RATE** – Use a 0.5% DDVP solution by mixing 1 quart of this product with 2 gallons of water.

**HOW TO APPLY** – Apply with a mist blower or other suitable equipment as an overall application at the rate of 0.2 pound of Technical DDVP per acre (approximately 5 gallons 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. Do not apply directly to exposed feed or water.

### **DAIRY AND BEEF CATTLE APPLICATIONS**

#### **NOT FOR USE IN OR AROUND RESIDENTIAL SITES.**

**AS A SPRAY-** For horn flies, stable flies, face flies, house flies, mosquitoes.

**MIXING RATE** – Use a 1.0% DDVP solution by mixing 1 gallon of this product with 3.5 gallons of water.

**HOW TO APPLY** – Apply 2 fluid ounces per animal as mist spray 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. Do not make direct application to livestock more frequently than once per day. Do not apply within 1 day of slaughter (PSI – 1 day). For face flies, spray the forehead taking care to avoid getting spray in eyes.

#### **IMPORTANT: PRECAUTIONS WHEN APPLYING TO ANIMALS**

Do not apply to calves under 6 months of age. 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 and 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 SOLUTIONS**, 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 the morning while dairy animals are in the barn.

## MUSHROOM HOUSES

For control of Phorid flies (manure flies), apply a 0.5% spray solution by mixing 1 quart of this product with 2 gallons of water. Apply the 0.5% solution as a coarse spray with a low-pressure sprayer. Apply to inside walls, around doors, ventilators and cracks in building before mushrooms come into production. Use ½ to 1 pint of the spray solution per 100 square feet. Apply up to 10 days before crop appears on soil beds. Do not spray inside walls after mushrooms are on beds. Thereafter, use only on the outside walls. Keep a minimum of a one-week interval between applications. Do not make applications when temperatures are below 60°F. For Mushroom Houses: If ventilation is complete before 18 hours have elapsed following application (e.g., Draeger tube reading), then a restricted-entry interval of 18 hours is in effect. Do not enter or allow workers to enter during the restricted-entry interval of 18 hours. Early entry as permitted by the Worker Protection Standard is permitted provided:

- the fumigant warning sign is removed, and
- the following personal protective equipment is worn: coveralls, shoes and socks, and waterproof gloves.

All treatments must be made during the hours when buildings are unoccupied. Buildings treated must be closed and ventilation kept at a minimum during application. Lock all entrances and do not allow unprotected workers to enter buildings during treatment. NOTIFICATION: Before the start of the application post fumigant warning signs at all entrances to the building as directed in the Agricultural Use Requirement box.

## USE IN GREENHOUSES (Non-Food)

For control of aphids, leafhoppers and red spider mites, apply this product as a fog or mist. Applicator must exit area to be treated prior to operating fogging or misting equipment remotely. Keep the fog nozzles at least 10 feet from the beds or benches. Use this product only on plants and varieties that are known to be tolerant to this type of treatment. After fogging, ventilate the area by using forced fan fog removal through doors and ventilators.

### GREENHOUSE PLANTS, EXCEPT TREES, SHRUBS AND WOODY ORNAMENTALS (NON-FOOD ONLY) FOGGING AND MISTING APPLICATION

For control of aphids, mites, mealybugs and whiteflies, prepare a 1.0% solution by mixing 1 gallon in 3½ gallons of water. Apply this 1.0% solution with a remotely operated fogging apparatus or a remotely operated mist blower at the rate of 6.8 fluid ounces per 1,000 cubic feet of greenhouse. Apply in closed greenhouse in the air above the plants. Ventilators should be closed for at least 2 hours. Begin applications when insects appear. Keep a minimum of one-week interval between applications. Do not make applications when temperatures are below 60°F.

All treatments must be made during the hours when buildings are unoccupied. Buildings treated must be closed and ventilation kept at a minimum during application. Lock all entrances and do not allow workers to enter buildings during treatment. Do not allow unprotected workers to enter building during ventilation. NOTIFICATION: Before the start of the application post fumigant warning signs at all entrances to the building as directed in the Agricultural Use Requirement box.

## 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 State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

### **CONTAINER DISPOSAL:**

For plastic containers 5 gallons or less: Nonrefillable container. Do not reuse or refill this container. Triple rinse container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into

application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling, if available, or reconditioning, if appropriate, or 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.

For plastic containers greater than 5 gallons: Nonrefillable container. Do not reuse or refill this container. Triple rinse container promptly after emptying. 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 side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over on to 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. Then offer for recycling, if available, or reconditioning, if appropriate, or 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.

For metal containers 5 gallons or less: Nonrefillable container. Do not reuse or refill this container. Triple rinse container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

For metal containers greater than 5 gallons: Nonrefillable container. Do not reuse or refill this container. Triple rinse container promptly after emptying. 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 side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over on to 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. Then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

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#### **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.

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