



STATE OF HAWAII  
Department of Agriculture

**ACCEPTED**

LICENSE NO. **9346.226**



# Permanone® 10% E.C.

- \* **BROAD SPECTRUM MULTI-USE INSECTICIDE**
- \* **QUICK KNOCKDOWN**
- \* **FOR USE OUTDOORS AND IN NON-FOOD/FEEED AREAS OF COMMERCIAL BUILDINGS, WAREHOUSES, AND FOOD/FEEED PROCESSING ESTABLISHMENTS.**
- \* **FOR USE ON LIVESTOCK: CATTLE (BEEF AND DAIRY), GOATS, SHEEP, SWINE, HORSES, AND POULTRY**

**ACTIVE INGREDIENT:**

Permethrin: .....	10.0%
†OTHER INGREDIENTS: .....	90.0%
	100.0%

† Contains Petroleum Distillates

EPA REG. NO. 432-1132

## KEEP OUT OF REACH OF CHILDREN WARNING

Refer to attached labels for complete First Aid, Precautionary Statements, Directions for Use and Storage and Disposal Instructions.

Net Contents  
**55 Gallons**  
**SKU# 04191632**

04491768D 120308AV2a

**BACKED**  
by **BAYER™**

FIRST AID	
<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 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 to 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 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>
<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>
<p><b>HOT LINE NUMBER: 1-800-331-2867</b> [Synthetic Pyrethroid]</p>	
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-334-7577 for emergency medical treatment information.</p>	
<p><b>Note To Physician:</b> Contains petroleum distillate - vomiting may cause aspiration pneumonia. Do not administer or instill milk, cream or other substances containing vegetable or animal fats which enhance absorption of lipophilic substances.</p>	

**READ ENTIRE LABEL BEFORE EACH USE  
PRECAUTIONARY STATEMENTS  
Hazards To Humans & Domestic Animals**

**WARNING**

Causes skin irritation. Do not get on skin, or on clothing. Harmful if inhaled. Avoid breathing vapor or spray mist. Causes moderate eye irritation. Avoid contact with eyes. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wear Coveralls worn over long sleeved shirt and long pants, socks, chemical resistant footwear, and chemical resistant gloves (barrier laminate, nitrile rubber, neoprene, rubber, viton, selection category F\*).

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Some materials that are chemical-resistant to this product are barrier laminate, butyl rubber greater or equal to 14 mils, and nitrile rubber greater or equal to 14 mils. If you want more options, follow the instructions for category F on an EPA chemical-resistance category selection chart.

Applicators using ULV cold foggers or fog/mist generators in indoor spaces must wear:

- Chemical resistant gloves,
- Chemical-resistant footwear plus socks, and
- Chemical resistant headgear, if overhead exposure.

Applicators using ULV cold foggers and/or fog/mist generators in outdoor spaces must wear:

- Long-sleeve shirt and long pants,
- Shoes plus socks, and
- Chemical-resistant gloves

All other mixers, loaders, applicators, and other handlers must wear:

- Long-sleeve shirt and long pants,
- Shoes plus socks,
- Chemical-resistant gloves for all handlers except for applicators using motorized ground equipment, pilots, and flaggers.
- Chemical resistant apron for mixers/loaders, persons cleaning equipment, and persons exposed to the concentrate and for handlers performing animal dip.

**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 product's concentrate. Do not reuse them. Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Users should 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.

**ENTRY RESTRICTIONS**

For space spray use

Do not enter or allow others to enter until vapors, mists, and aerosols have dispersed, and the treated area has been thoroughly ventilated.

For surface spray use

Except when applying to livestock, do not enter or allow others to enter treated area until sprays have dried.

**ENVIRONMENTAL HAZARDS FOR TERRESTRIAL APPLICATIONS**

This product is extremely toxic to aquatic organisms, including fish and invertebrates. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid runoff to water bodies or drainage systems.

This pesticide is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area.

**ENVIRONMENTAL HAZARDS FOR WIDE AREA MOSQUITO ADULTICIDE APPLICATIONS**

This pesticide is extremely toxic to aquatic organisms, including fish and invertebrates. Runoff from treated areas or deposition of spray droplets into a body of water may be hazardous to fish and aquatic invertebrates.

When applying as a wide area mosquito adulticide, before making the first application in a season, it is advisable to consult with the state or tribal agency with primary responsibility for pesticide regulation to determine if other regulatory requirements exist.

When applying as a wide area mosquito adulticide, do not apply over bodies of water (lakes, rivers, permanent streams, natural ponds, commercial fish ponds, swamps, marshes or estuaries), except when necessary to target areas where adult mosquitoes are present, and weather conditions will facilitate movement of applied material away from the water in order to minimize incidental deposition into the water body.

**Physical & Chemical Hazards**

Do not use or store near heat or open flame. Do not use this product in or on electrical equipment due to the possibility of shock hazard.

**DIRECTIONS FOR USE**

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

**APPLICATION RESTRICTIONS**

Do not breathe vapors or spray mist.

Do not use in aircraft cabins.

Use in a handheld cold or thermal fogger is prohibited.

Except when applying to livestock or as a wide area mosquito adulticide, do not apply this product in a way that will contact workers or other persons, either directly or through drift.

Except when applying to livestock or as a wide area mosquito adulticide, only protected handlers may be in the area during application.

Do not apply when food is present.

**WIDE AREA MOSQUITO CONTROL**

For use by federal, state, tribal, or local government officials responsible for public health or vector control, or by persons certified in the appropriate category or otherwise authorized by the state or tribal lead pesticide regulatory agency to perform adult mosquito control applications, or by persons under their direct supervision.

**APPLICATION INSTRUCTIONS**

Do not exceed 25 applications at 0.007 lbs of permethrin per acre or 0.18 lbs of permethrin per acre in any given season. More frequent treatments may be made to prevent or control a threat to public and/or animal health determined by a state, tribal or local health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes or the occurrence of mosquito-borne diseases in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort.

Apply when wind speed is greater than 1 mph.

**GENERAL**

PERMANONE® 10% E.C. is designed for application as an Ultra-Low Volume (ULV) aerosol to control adult mosquitoes and flies in residential, industrial, urban, recreational and other areas where adult mosquitoes and flies are found. PERMANONE 10% E.C. is also recommended for application with mist-blowers, backpack sprayers, handheld sprayers, and low pressure hand sprayers for barrier or surface applications. PERMANONE 10% E.C. is used for control of annoyance flies and mosquitoes, mosquitoes and flies of public health or disease vector importance in areas such as but not limited to residential areas, industrial areas, urban areas, parks, campsites, woodlands, athletic fields, golf courses, playgrounds, recreational and overgrown waste areas, roadsides, and other areas where adult mosquitoes and flies occur. Apply at a rate not to exceed 0.007 pounds of permethrin per acre in any given 24 hour period.

In the treatment of corrals, feed lots, swine lots, poultry ranges and zoos over any exposed drinking water, drinking fountains and animal feed before application.

PERMANONE 10% E.C. provides effective control of adult mosquitoes, black flies, gnats, biting and non-biting midges, stable flies, horse flies, deer flies, sheep flies, horn flies, and nuisance flying insects such as houseflies.

**Spray Droplet Size Determination**

**Ground Equipment:**

Spray equipment must be adjusted so that the volume median diameter is less than 30 microns (Dv 0.5 < 30 µm) and that 90% of the spray is contained in droplets smaller than 50 microns (Dv 0.9 < 50µm). Directions from the equipment manufacturer or vendor, pesticide registrant or a test facility using a laser-based measurement instrument must be used to adjust equipment to produce acceptable droplet size spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rate(s) are properly calibrated.

Continued on back label

**WIDE AREA MOSQUITO CONTROL (continued from front label)**

**GROUND APPLICATION**

Vehicle-Mounted ULV Cold Aerosol Generators or Vehicle-Mounted Non-Thermal Aerosol (Cold Fog): Dilute 1 part concentrate with 1 part water or suitable oil solvent or at proportional oil dilutions calculated on the basis of vehicle speed and swath width to achieve the target dose. Apply through non-thermal ULV application equipment and base acreage calculations on the equipment manufacturer's recommended swath width. Apply at a rate not to exceed 0.007 pounds of permethrin per acre in any given 24 hour period. An optimum swath is created when PERMANONE 10% E.C. is applied from a truck that is being driven perpendicular to the wind direction. Direct the spray head of equipment to ensure even distribution of the spray cloud throughout the area. For best results, apply when insects are most active and meteorological conditions are conducive to keeping the spray cloud in the air column close to the ground. An inversion of air temperatures and a light breeze is preferable. Do not exceed 25 applications at 0.007 pounds of permethrin per acre (not to exceed a total of 0.18 pounds of permethrin per acre) in any given season. More frequent applications may be made to prevent or control a threat to public and/or animal health determined by a state, tribal or local health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes or the occurrence of mosquito-borne disease in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort. Application during the cooler hours of the night or early morning is recommended. PERMANONE 10% E.C. may be applied through ULV Cold Aerosol Generators, or other equipment designed for non-thermal ULV aerosol applications. The desired application rate may be obtained under different

conditions by altering the dilution rate of PERMANONE 10% E.C., the flow rate of the insecticide from the application equipment and the vehicle speed. Where dense vegetation is present, the use of higher rates and/or slower speeds is recommended. BARRIER APPLICATIONS: For control and exclusion of resting or flying adult mosquitoes in areas such as animal quarters, roadsides, urban areas, residential areas, industrial areas, golf courses, parks, recreational areas, tire piles and all public areas where adult mosquitoes may occur. May be used to treat aggregation and harborage areas such as the perimeter of residential buildings, storage buildings, empty rail cars, truck transport trailers, abandoned buildings and other areas where adult mosquitoes find harborage. For application to resting or aggregation surfaces using low pressure hand sprayers or other similar equipment which has demonstrated the capacity to deliver an even distribution of the labeled rate over the desired treatment area, mix 1 part concentrate with 1 part of water or suitable oil diluents and apply sufficient spray to dampen surface. For application using backpack or truck-mounted mistblower equipment, apply undiluted product at a rate not to exceed 38.6 fl oz of diluted product per acre or diluted at a rate not to exceed 0.1 lbs ai per acre. Direct spray onto foliage at the perimeter of areas from which mosquitoes or flies are to be excluded or direct spray into harborage areas or resting areas where adult mosquitoes or flies may be found. When this product is applied as a barrier application using low pressure hand sprayers, hydraulic sprayers, or ground ULV equipment, do not apply within 100 feet (30 meters) of lakes and streams.

Not for use in outdoor residential misting systems.

To prepare dilutions, the concentrate should first be stirred or agitated well. Add the required amount of concentrate to water or oil and blend thoroughly. Do not hold dilutions for more than 24 hours.

For maximum effectiveness, a combination of localized application and space treatment is recommended. Remove pets, birds, and cover fish aquaria before spraying.

**USE RESTRICTIONS FOR WIDE AREA MOSQUITO USE**

Do not allow spray treatment to contaminate cropland, poultry ranges or water supplies. Do not use on crops used for food or forage.

**USE RESTRICTIONS FOR INDOOR USE**

Except when making wide area mosquito adulticide applications or treating livestock, do not apply this product in a way that will contact workers or other persons, either directly or through drift.

Except when making wide area mosquito adulticide applications or treating livestock, only protected handlers may be in the area during application.

Do not breathe dusts, vapors, or spray mist.

**For applications to food/feed handling and service areas:**

Do not apply when food is present.

Do not use in food areas of food handling establishments, restaurants, or other areas where food is commercially prepared or processed.

Do not use in serving areas while food is exposed or facility is in operation. Serving areas are areas where prepared foods are served, such as dining rooms, but excluding areas where foods may be prepared or held. In the home, all food processing surfaces and utensils should be covered during treatment or thoroughly washed before use. Exposed food should be covered or removed.

Do not apply indoors at residential sites, including nurseries, day care centers, schools, hospitals, and nursing homes. Not for broadcast use.

Application is prohibited directly into sewers or drains, or to any area like a gutter where drainage to sewers, storm

drains, water bodies, or aquatic habitat can occur. Do not allow the product to enter any drain during or after application.

**USE RESTRICTIONS FOR OUTDOOR AND ANIMAL QUARTER USE**

When used in dairy barns or facilities: Close milk bulk tank lids to prevent contamination from spray and from dead or falling insects. Remove or cover milking utensils before application. Wash teats of animals before milking.

All outdoor applications must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses:

- (1) Treatment to soil or vegetation around structures;
- (2) Applications to lawns, turf, and other vegetation;
- (3) Applications to building foundations, up to a maximum height of 3 feet.

Other than applications to building foundations, all outdoor applications to impervious surfaces such as sidewalks, driveways, patios, porches, and structural surfaces (such as windows, doors, and eaves) are limited to spot and crack-and-crevice applications only.

Do not water the treated area to the point of run-off.

Do not make applications during rain.

**INDOOR USE AREAS**

- |                        |                          |                |
|------------------------|--------------------------|----------------|
| Bakeries               | Granaries                | Ships' Holds   |
| Beverage Plants        | Industrial Installations | Supermarkets   |
| Canneries              | Kennels                  | Truck Trailers |
| Flour Mills            | Meat Packing Plants      | Warehouses     |
| Food Processing Plants | Office Buildings         |                |
| Grain Elevators        | Railroad Cars            |                |

**STORAGE AND DISPOSAL**

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

**Pesticide Storage and Spill Procedures:** Store upright at room temperature. Avoid exposure to extreme temperatures. In case of spill or leakage, soak up with an absorbent material such as sand, sawdust, earth, fuller's earth, etc. Dispose of with chemical waste.

**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:** Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with mineral oil. 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. Empty the rinse into application equipment or a mix tank or store rinse for later use or disposal. Repeat this procedure two more times. 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.

**IMPORTANT: READ BEFORE USE**

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

**CONDITIONS:** The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Bayer CropScience LP. All such risks shall be assumed by the user or buyer.

**DISCLAIMER OF WARRANTIES:** TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE LP MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Bayer CropScience LP is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE LP DISCLAIMS ANY LIABILITY WHATSOEVER FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

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APPLICATION SITES	PESTS CONTROLLED	USE DIRECTIONS	DILUENT	DILUTION RATE	APPLICATION RATE	DOSE RATE
LIVESTOCK SPRAY: Dairy & Beef Cattle, Sheep, Goats, Swine, Horses, and Poultry (For swine, do not ship animals for slaughter within 5 days of last treatment).	Horn Flies, House Flies, Mosquitoes, and Gnats	Apply to wet the hair thoroughly, with particular attention to topline, underline, flanks, withers, and other infested areas. Repeat treatment at intervals of 5 to 12 days for small insect populations or as needed when flies are emerging in large numbers.	Water	1 part concentrate in 100 parts water (1.3 fl ounces per gallon)		
	Stable Flies, Horse Flies, and Deer Flies	Apply a quart per adult animal to wet the hair thoroughly with particular attention to the legs, flanks, barrel, topline, and other body areas commonly attacked by these flies. Repeat daily as needed.	Water	1 part concentrate in 100 parts water (1.3 fl ounces per gallon)		
	Face Flies	Apply using spray which produces large wetting droplets. Apply to the face of the animal in the morning before release to pasture. Apply sufficiently to wet the face but not more than 1.5 ounces per animal. Repeat daily as needed.	Water	1 part concentrate in 100 parts water (1.3 fl ounces per gallon)		
	Sheep "ticks" or keds	Thoroughly wet all portions of the body by dipping or by spraying with sufficient pressure and with a nozzle adjustment to give penetration of the wool. Treat at a rate sufficient to wet the animal.	Water	1 part concentrate in 100 parts water (1.3 fl ounces per gallon)		
	Fleas on Livestock (To kill and to protect against reinfestation)	Wet the animal by dipping or spraying	Water	1 part concentrate in 20 parts water (6.5 fl ounces per gallon)		
AS A SPACE SPRAY LIVESTOCK PREMISES: Barns, Milking Parlors, Milk Rooms, Dairies, Poultry Houses, Swine, and Livestock Housing Bakeries, Beverage Plants, Canneries, Flour Mills, Food Processing Plants, Granaries, Industrial Installations, Kennels, Meat Packaging Plants, Office Buildings, Railroad Cars, Ships' Holds, Supermarkets, Truck Trailers, Warehouses	Fleas, Mosquitoes, and Gnats	Apply as a fog or fine mist, directing the spray toward the ceiling and upper corners until the area is filled with mist, using about 2 ounces per 1000 cubic feet of space. For best results, close doors and windows before spraying and keep them closed for ten to fifteen minutes. Vacate the treated area and ventilate before reoccupying. Repeat treatment daily as needed.	Water	1 part concentrate in 20 parts water (6.5 fl ounces per gallon)		
	House Flies, Fruit Flies, Gnats, Mosquitoes, Skipper Flies, Wasps, Hornets, Bees, Black Flies, Small Flying Moths.	Apply with mechanical or compressed air equipment (non-thermal) adjusted to deliver a fine mist. Close doors and windows and shut off ventilating systems. When using an oil dilution for space spraying extinguish all flames and pilot lights when applying.  For rapid control of Houseflies, Fruit Flies, Gnats, Mosquitoes, Skipper Flies, Wasps, Hornets, Bees, Black flies, Small Flying Moths, direct spray at an upward angle distributing uniformly through the entire area at a rate of 1 ounce per 1000 cubic feet of space. Keep area closed for at least 10 minutes. Vacate areas after treatment and ventilate and sweep up dead insects before reoccupying.  For rapid kill of exposed or accessible stages of other insects named on this label, apply using conventional mechanical or compressed air equipment (non-thermal) following directions for space spraying.	Oil or Water	1 part concentrate in 20 parts oil or water (6.5 fl ounces per gallon)	1 ounce per 1000 cubic feet	



Produced for:  
**Bayer Environmental Science**  
 A Division of Bayer CropScience LP  
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 Research Triangle Park, NC 27709  
 Product of India

**04191632**

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