DELTAMETHRIN	GROUP	3A	INSECTICIDE
PRALLETHRIN	GROUP	3A	INSECTICIDE

DUOVEX™

For the Control of Adult Mosquitoes and Non-biting Midges*

For Use as a Space Spray by Air and Ground Application to Control Adult Mosquitoes

Approved for Use Over Agricultural Crops, Pasture and Rangeland

Quick Knockdown of Adult Mosquitoes**

Controls Adult Mosquitoes that may Transmit Pathogens such as West Nile Virus, Eastern Equine Encephalitis Virus, Western Equine Encephalitis Virus, St. Louis Encephalitis Virus, Dengue Virus, Chikungunya Virus, Zika Virus

*Except in California
**within 15 minutes

SPECIMEN LABEL

ACTIVE INGREDIENT:

Deltamethrin	1.00%
Prallethrin	1.25%
OTHER INGREDIENTS:	97.75%
TOTAL:	100.00%

Contains 0.07 lb Deltamethrin per gallon and 0.09 lb Prallethrin per gallon

EPA REG. NO. 89459-155 EPA EST. NO. 2724-TX-1

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE ADDITIONAL PRECAUTIONARY STATEMENTS

PRECAUTIONARY STATEMENTS – HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to aquatic organisms, including fish and invertebrates. Runoff from treated areas or deposition into bodies of water may be hazardous to fish and other aquatic organisms. Do not apply over bodies of water (lakes, rivers, permanent streams, natural ponds, commercial fishponds, 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 water in order to minimize incidental deposition into the water body. Do not contaminate bodies of water when disposing of equipment rinsate or washwaters.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Time applications to provide the maximum possible interval between treatment and the next period of bee activity. Do not apply to blooming crops or weeds when bees are foraging the treatment area, except when applications are 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.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
READ AND FOLLOW ALL LABEL DIRECTIONS.

RESISTANCE MANAGEMENT

For resistance management, DUOVEX™ contains Group 3A insecticides. Any insect population may contain individuals naturally resistant to DUOVEX™ and other Group 3A insecticides. The resistant individuals may dominate the insect population if this group of insecticides is used repeatedly. Appropriate resistance management strategies should be followed. To delay insecticide resistance, take the following steps:

- Rotate the use of DUOVEX™ or other Group 3A insecticides with different groups that control the same pests.
- Adopt an integrated pest management program for insecticide use that includes scouting, uses historical information related to pesticide use, record keeping, and which considers cultural, biological, and other chemical control practices.
- Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.
- Contact your local extension specialist for any additional pesticide resistance management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance, contact Central Garden & Pet Company at 1-800-248-7763.

GENERAL

For outdoor use only. DUOVEX™ is an effective insecticide used at low volumes to control adult mosquitoes and non-biting midges*. Use DUOVEX™ neat or diluted as Ultra Low Volume (ULV) for the control of pest species in or near residential, industrial, commercial, urban, recreational areas, woodlands, golf courses, and other areas where these pests are present. DUOVEX™ may be applied over agricultural crops, including those intended for human consumption, pasture and rangeland for the control of adult mosquitoes within or adjacent to these areas. Apply DUOVEX™ aerially by fixed-wing and/or rotary aircraft for low volume applications or through vehicle-mounted machines for ground applications. DUOVEX™ will control mosquitoes and can be used as part of a total integrated pest management program for controlling disease vectors. Apply DUOVEX™ at rates from 0.0003 to 0.0006 pound (0.50 to 1.00 fl oz) of deltamethrin and 0.0004 to 0.0007 (0.50 to 1.00 fl oz) pound of prallethrin per acre by ground ULV. Use this product neat or diluted, apply when wind is ≥ 1 mph. A temperature inversion is preferable to keep the fog close to the ground and apply when labeled insects are most active.

Do not spray more than 0.017 pound of deltamethrin and 0.018 pound of prallethrin per acre per site per year. Do not make more than 25 applications per site per year. 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 mosquitoborne disease in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort.

*Except in California

GROUND APPLICATION

Use a vehicle-mounted cold aerosol ULV sprayer to apply the product. Direct the spray equipment nozzle to provide even distribution of the product. For best results, apply perpendicular to the wind direction using a swath width of 300 ft. Spray equipment must be adjusted so that the volume median diameter (VMD) is between 10-30 microns ($10\mu \leq D_{v0.5} \leq 30\mu$) and that 90% of the spray is contained in droplets smaller than 50 microns ($D_{v0.9} < 50\mu$).

Directions from the equipment manufacturer or vendor, pesticide registrant, or test facility using a laser-based measurement instrument or a 'hot wire' based droplet analyzer or rod/slide based droplet collection and analyzer system 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. Do not apply when ground wind speeds are above 10 miles per hour.

The appropriate application rate can be achieved by using the following table. Refer to the following chart for examples. Product can be used neat (undiluted) or diluted in water or oil-based diluents.

Rate pound A.I. per acre	Product fl oz per acre	Flow volume, oz per minute				Vehicle Speed (MPH)
		Undiluted	Diluted 1:2	Diluted 1:4	Diluted 1:8	
Deltamethrin: 0.0003, Prallethrin: 0.0004	0.50	1.52 3.03 4.55 6.06	4.55 9.09 13.64 18.18	7.58 15.15 22.73 30.30	13.64 27.27 40.91 54.55	5 10 15 20
Deltamethrin: 0.0004, Prallethrin: 0.0005	0.67	2.02 4.04 6.06 8.08	6.06 12.12 18.18 24.24	10.10 20.20 30.30 40.40	18.18 36.36 54.55 72.73	5 10 15 20
Deltamethrin: 0.0006, Prallethrin: 0.0007	1.00	3.03 6.06 9.09 12.12	9.09 18.18 27.27 36.36	15.15 30.30 45.45 60.61	27.27 54.55 81.82 109.09	5 10 15 20

Use the higher label rates when spraying areas where dense vegetation is present. Apply when temperatures are between 50-95° F.

Urban ULV Mosquito Control Applications: For control of resting or flying adult mosquitoes and non-biting midges* in utility tunnels, sewers, storm drains and catch basins, pipe chases, underground basements, underground passages, parking decks, crawl spaces or uninhabited buildings, apply DUOVEX™ using mechanical foggers, specifically vehicle-mounted ULV equipment. Apply DUOVEX™ at rates of 0.0003 to 0.0006 pound of deltamethrin and 0.0004 to 0.0007 pound of prallethrin per acre.

*Except in California

Thermal Fogging Application

Apply using vehicle-mounted fogging equipment. Following the equipment manufacturer's instructions, apply this product at a rate of 0.0003 to 0.0006 pound of deltamethrin and 0.0004 to 0.0007 pound of prallethrin per acre. Direct fog to areas where mosquitoes and non-biting midges* are located. The volume median diameter (VMD) of droplets produced by thermal foggers is less than 30 microns ($D_{v0.5} < 30\mu$) and 90% of the spray is contained in droplets smaller than 50 microns ($D_{v0.9} < 50\mu$).

*Except in California

Mandatory Spray Drift Management
Ultra-Low Volume Applications

- Apply when ground wind speeds are equal to or greater than 1 mph.
- All types of applications should be conducted when temperatures at ground level are at or above 50° F.

For Ground Applications:

Create an optimum swath when possible. An optimum swath width can be achieved when product 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, treat when mosquitoes or insects are most active and weather conditions are conducive to keep the spray cloud in the air column close to the ground.

An inversion of air temperatures and a light breeze is preferable. Application during the cooler hours of the night or early morning is recommended.

For Aerial Applications:

Do not apply by fixed-wing aircraft at a nozzle height less than 100 feet (30.5 m) above ground or canopy or by helicopter at a height less than 75 feet (22.9 m) above the ground or canopy, unless specifically approved by the state or tribe based on public health needs.

Adult mosquito control applications should be limited to trained personnel.

For use only 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 supervision, or as allowed by state regulations for persons treating private property.

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

Do not apply over bodies of water (lakes, rivers, permanent streams, natural ponds, commercial fishponds, swamps, marshes or estuaries), except when necessary to target areas where adult mosquitoes are present, and weather conditions will facilitate movement of applied material beyond the body of water to minimize incidental
deposition into the water body. Do not contaminate bodies of water when disposing of equipment rinsate or washwaters.

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.

Do not treat a site with more than 0.0006 lb of Deltamethrin and 0.0007 lb of Prallethrin of each ai per acre in a single application or in any 24-hour period. Do not exceed 0.017 pound of deltamethrin and 0.018 pound of prallethrin per acre in any site in one year. 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.

AERIAL APPLICATION

Apply DUOVEX™ aerially by fixed-wing and/or rotary aircraft. Apply at a finished product rate of 0.5 to 1.0 fl oz per acre: equivalent to 0.0003 to 0.0006 pound of deltamethrin and 0.0004 to 0.0007 pound of prallethrin per acre. Apply using ULV equipped and capable aircraft. For applications made up to 300 feet above the ground, spray equipment must be adjusted so that the volume median diameter (VMD) produced is less than 60 microns ($D_{v0.5}$ < 60μ) and that 90% of the spray is contained in droplets smaller than 100 microns ($D_{v0.9}$ < 100μ). The effects of flight speed and, for non-rotary nozzles, nozzle angle on the droplet size spectrum must be considered.

Directions from the equipment manufacturer or vendor, pesticide registrant, or test facility using a laser-based measurement instrument or a 'hot wire' based droplet analyzer or rod/slide based droplet collection and analyzer system must be used to adjust equipment to produce acceptable droplet size spectra. Application equipment must be tested annually to confirm that pressure at the nozzle and nozzle flow rate(s) are properly calibrated. Do not apply DUOVEX™ by fixed-wing aircraft at a nozzle height less than 100 feet (30.5 m) above ground or canopy, or by helicopter at a height less than 75 feet (22.9 m) above the ground or canopy, unless specifically approved by the state or tribe based on public health needs.

APPLICATIONS OVER CROPS OR TO AREAS FAVORING DRIFT OVER CROPS

DUOVEX™ may be applied over crops (Bulb Vegetables - Group 3-07), (Cucurbit Vegetables - Group 9), (Fruiting Vegetables - Group 8-10), (Root Vegetables except sugar beet - Subgroup 1B), (Tuberous and Corn Vegetables - Subgroup 1C), (Pome Fruits - Group 11-10), (Tree Nut - Group 14), Rapeseed, Cotton, Corn (field, pop, sweet), Soybean, Sorghum, and Sunflower, including those intended for human consumption, pasture and rangeland and other non-crop areas where agricultural enterprises take place. DUOVEX™ can be applied to these areas by either ground or aerial application. Use label rates and follow directions for use as directed in this label. Applications over specified crops or where drift may occur over specified crops are limited to 4 applications per month to the same site but no more than two applications within a seven-day interval. Do not apply more than 0.0024 pound of deltamethrin and 0.0028 pound of prallethrin per acre per month to the same site. Do not spray more than 0.015 pounds of deltamethrin and 0.018 pound of prallethrin per acre per site per year. Do not make more than 25 applications per site per year.

IN FLORIDA: Aerial applications of this product require trained personnel to perform industry accepted assays to
monitor resistance formation in targeted mosquitoes.

PESTICIDE STORAGE AND DISPOSAL

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

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 with chemical waste.

Pesticide Disposal: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Container Disposal: (Over 5 gallons): Non-refillable container. Do not reuse or refill this container. Triple rinse (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 suitable diluent. 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 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. Once triple rinsed, offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other approved state and local procedures.

Non-Refillable (5 gallons or less): Non-refillable container. Do not reuse or refill this container. Triple rinse (or equivalent), promptly after emptying. Triple rinse as follows. Empty the remaining contents into application equipment or mix tank and drain container for 10 seconds after the flow begins to drip. Fill the container ¼ full with suitable diluent and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank. Drain container for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Once triple rinsed, offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other approved state and local procedures.

In case of an emergency or for product use information,
call **1-800-248-7763**.

To the extent consistent with applicable law, seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risks of use and handling of this material when such use and handling are contrary to label instructions.

Manufactured for:

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