Mosquito Mist Ultra
Synergized Permethrin Formulation

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 direct supervision.

- Controls adult mosquitoes (including organophosphate resistant mosquitoes), midges (biting and non-biting) and blackflies
- Quick knockdown and effective control of target insects
- ULV, thermal and barrier applications using ground and aerial equipment
- For surface and barrier applications using handheld equipment.
- May be applied undiluted, or diluted with water or oil.
- Can be used with injection mixing systems or other insecticide mixing systems.
- For ULV applications at rates up to 0.007 lbs. a.i. per acre.
- For barrier application at rates up to 0.1 lbs. a.i. per acre.

**ACTIVE INGREDIENTS:**
*Permethrin: ......................... 20.6%
**Piperonyl Butoxide Technical: 20.6%
**INERT INGREDIENTS: .............. 58.8%
TOTAL: .......................... 100.0%

13-phenylphenyl(methyl)carbamic(trans-3,2,2-dimethyl-2-cyclopropyl)carbamic acid, cis/trans ratio min. 30% (+)-cis and max. 60% (+)-trans.
**Equivalent to 10% (w/w) piperonyl butoxide and 20% related compounds. Contains 1.75 pounds of permethrin and 1.75 pounds of piperonyl butoxide per gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION

PRECAUCION AL USUARIO: Si usted no lee inglés, no use este producto hasta que le explica una persona habla español. Si usted no comprende bien inglés, no use este producto hasta que el etiquetado le sea explicado por alguien.

See Inside booklet for Additional Precautionary Statements

EPA Reg. No. 5383-274 EPA Est. No. 5388-TX-002

Manufactured for:
Control Solutions Inc.
5903 Genoa–Red Bluff Road
Pasadena, Texas 77507

FIRST AID

If Swallowed:
• Immediately call a poison control center or doctor.
• Do not induce vomiting unless told to do so by a poison control center or doctor.
• Have person sip a glass of water if able to swallow.
• Do not give anything by mouth to an unconscious person.

If on Skin or Clothing:
• Take off contaminated clothing.
• Rinse skin immediately with plenty of water for 15 - 20 minutes.
• Call a poison control center or doctor for treatment advice.

In case of an emergency with this product contact SafetyCall® International at (866) 897-8050

PRECAUTIONARY STATEMENTS
Hazards to Humans and Domestic Animals

CAUTION
Harmful if absorbed through skin. Harmful if swallowed. Avoid contact with skin, eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

ENVIRONMENTAL HAZARDS
This product is extremely toxic to aquatic organisms, including fish and aquatic invertebrates. Runoff from treated areas or deposition of spray droplets into a body of water may be hazardous to fish and aquatic invertebrates. 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. Do not contaminate bodies of water when disposing of equipment waste or wastewater.

Bee Warning: This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply to blooming crops or weeds while bees are visiting the treatment areas, except when applications are made to prevent or control a threat to public and/or animal health. Never apply to blooming crops or weeds while bees are visiting the treatment areas, except when applications are made to prevent or control a threat to public health. Do not contaminate bodies of water when disposing of equipment waste or wastewater.

PHYSICAL AND CHEMICAL HAZARDS
Combustible. Do not use or store near heat or open flame.

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

Note: 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.

HOW TO APPLY AND WHERE TO USE
Mosquito Mist Ultra is designed for application as an Ultra-Low Volume (ULV) or thermal aerosol to control adult mosquitoes and flies of nuisance, public health or disease vector importance in areas such as but not limited to: residential areas, industrial areas, commercial areas, urban areas, parks, campgrounds, woodlots, athletic fields, golf courses, playgrounds, recreational areas, overgrown waste areas, roadways, corrals, feedlots, animal confinement structures, swine lots and zoos and other areas, where adult mosquitoes and flies may be found.

Mosquito Mist Ultra is recommended for application with ULV cold aerosol generators, mist-blowers, backpack sprayers, or hand-held sprayers. Mist-blowers, backpack sprayers, hand-held sprayers and low-pressure hand sprayers may be used for barrier or surface applications.
FOR BEST RESULTS treat when mosquitoes or insects are most active and weather conditions conducive to keeping the fog near the ground e.g., cool temperatures, and consistent wind speeds are not greater than 10 mph. Applications during cool hours of night or early morning are usually preferable.

Do not retreat the same site more than once in 12 hours. Do not apply more than 0.18 lbs. of permethrin per acre per year to any site. 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 disease in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort.

Mosquito Mist Ultra may be applied on specific growing crops and range grasses prior to harvest for the control of adult mosquitoes and biting flies within or adjacent to these areas. Application can only be made where the following crops are present:

- Almonds
- Cauliflower
- Range Grasses
- Pears
- Apples
- Cherries
- Leafy Vegetables (except Brassica)
- Peppers, bell
- Broccoli
- Corn, fodder
- Lettuce, head
- Soybeans
- Brussels sprouts
- Corn, forage
- Mushrooms
- Tomatoes
- Cabbage
- Corn grain
- Onions, dry bulb
- Vegetables, cucurbits
- Celery
- Eggplant
- Peaches
- Walnuts

Do not allow spray treatment to drift on pastureland, cropland, (other than crops listed) or water supplies. In treatment of corns, feedlots, animal confinement areas, swine lots and zoos, cover any exposed drinking water, drinking fountains and animal feed before application.

Mosquito Mist Ultra provides effective control of adult mosquitoes, black flies, gnats, biting and non-biting midges, stable flies, horse flies, deer flies, sheep flies, horn and heel flies, and nuisance flying insects such as hellebros. Air temperatures should be greater than 50°F when conducting all types of applications.

GROUND APPLICATION

Vehicle-Mounted ULV Cold Aerosol Generators (Cold Fog): Apply through non-thermal ULV application equipment and basis acreage calculations on the equipment manufacturer's recommended swath width. Spray equipment must be adjusted so that the volume median diameter or mass median diameter is less than 30 microns (Dv 0.5 < 30 μm) and that 90% of the spray is contained in droplets smaller than 48 microns (Dv 0.9 < 48 μm). 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. Apply at a rate not to exceed 0.007 pounds of permethrin per acre. An optimum swath is created when Mosquito Mist Ultra is applied from a truck being driven perpendicular to the wind direction. Direct the spray head of the equipment to ensure an optimum 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 near the ground. An inversion of air temperatures and a light breeze of approximately 1 to 3 mph is preferable. Curing applications consistent ground wind speeds should not exceed 10 mph. Application of this product during cooler hours of the night or early morning is recommended.

Mosquito Mist Ultra may be applied through all ULV Cold Aerosol Generators, or other similar equipment designed for non-thermal ULV aerosol applications. The desired application rate may be obtained from the chart below or by referring to the dilution rate of Mosquito Mist Ultra, the flow rate of the insecticide from the application equipment and the vehicle speed. Some examples are provided in the following chart. When an alternate rate is required, adjust the flow rate accordingly, provided the droplet size and spectrum remain within the label specifications.

FLOW RATE (Fluid Ounces Per Minute)

<table>
<thead>
<tr>
<th>Application Rate</th>
<th>Vehicle Speed (MPH)</th>
<th>Undiluted</th>
<th>Diluted 1:3</th>
<th>Diluted 1:4.5</th>
<th>Diluted 1:9.5</th>
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<td>20</td>
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* Dilution Instructions: Fill tank with the recommended amount of water, start agitation then add the correct amount of Mosquito Mist Ultra. The use of metering pumps, injector systems or other mixing systems is optional. Note: When using oil as a diluent, agitate well before use.

Where dense vegetation is present, use higher rates of application and/or a slower speed for best results. All applications should be conducted when temperatures are greater than 50°F.

BACKPACK OR HANDHELD SPRAYER APPLICATION: Apply through non-thermal ULV application equipment and base acreage calculations on a 300-foot swath. To apply undiluted at 0.007 pounds of permethrin per acre adjust equipment to an output rate of 1.25 ounces per minute and walk at 4 mph. To apply 0.0035 pounds of permethrin per acre, dilute 1 part Mosquito Mist Ultra with 3 parts of diluent and apply at a rate of 3.8 ounces per minute and walk at 4 mph.

THERMAL AEROSOL APPLICATION: For use in truck-mounted, hand-held or other thermal fogging equipment. Spray equipment must be adjusted so that the volume median diameter or mass median diameter is less than 30 microns (Dv 0.5 < 30 μm) and that 90% of the spray is contained in droplets smaller than 48 microns (Dv 0.9 < 48 μm). 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. Apply this product mixed with water or oil at a rate not to exceed 0.007 lbs. per acre. Base aircrew calculations on a 200 foot swath. For best results, direct the thermal fog into and allow to drift through areas where adult mosquitoes are found.

BARRIER APPLICATIONS: To exclude and control resting or flying adult mosquitoes in areas such as animal quarters, roadways, urban areas, residential areas, commercial areas, industrial areas, golf courses, parks, recreational areas, the pines and all public areas where adult mosquitoes occur or find harborage. May be used to treat aggregation and harborage areas such as the perimeter of residential buildings, commercial buildings, storage buildings, plant spaces, transport trailers, abandoned or uninhabited buildings and other areas where adult mosquitoes find harborage.

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.

To apply this product using low pressure hand sprayers or other similar equipment, for the control of mosquitoes on resting or aggregation surfaces, mix 0.120 lbs. (3.73 ml) in one gallon of water and apply sufficient spray to dampen the surface - approximately 703-763 square feet of treated area. Use equipment that is capable of delivering an even distribution of the labeled rate over the treatment area. For application using backpack or truck-mounted hand-held equipment apply Mosquito Mist Ultra undiluted at a rate not to exceed 7.5 oz. per acre.  If diluted apply at a rate not to exceed 0.1 lbs. permethrin a.i. per acre. Diluted or undiluted applications may be made onto bunks at the perimeter of areas such as recreational areas, parks or golf courses from which mosquitoes or flies are to be excluded. Applications may be directed into harborage areas or other resting areas where adult mosquitoes or flies may be found.
URBAN ULV MOSQUITO CONTROL APPLICATIONS: For control of resting or flying adult mosquitoes, biting flies and biting midges in harborage areas such as but not limited to utility tunnels, sewers, storm drains and catch basins, pipe tunnels, basements, underground passageways, park benches, crawl spaces under buildings, abandoned buildings or unevaluated buildings. Apply Mosquito Mist Ultra diluted or undiluted using mechanical foggers, hand-held or truck-mounted ULV equipment, thermal foggers or other spray equipment suitable for this type of application. Mosquito Mist Ultra may be applied at rates up to but not exceeding 3.007 lbs. permethrin per acre.

AERIAL APPLICATION

Apply Mosquito Mist Ultra either diluted or undiluted at rates up to 0.067 lbs. permethrin/PSO per acre by fixed wing or rotary aircraft equipped with a spraying system capable of making a ULV application. For aerial applications of Mosquito Mist Ultra, use ULV equipment and nozzles such as rotary atomizers or similar spray equipment. Spray equipment must be adjusted so the volume median diameter produced is less than 0.5 microns (Dv0.5 < 0.5 μm) and that 98% of the spray is contained in droplets smaller than 15 microns (Dv0.95 < 15 μm). Directions from the equipment manufacturer or vendor, pesticide applicator or a test facility using a wind tunnel and laser-based measurement instrument must be used to adjust equipment to produce acceptable drop 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.

Aerial application of PSO/Permethrin 20:1 shall be made at altitudes ranging from 100 feet to 200 feet. Do not apply when ground speed equals 0 MPH or when ground wind exceeds 10 MPH. Aerial applications of Mosquito Mist Ultra shall only be made when recommended by public health officials and trained personnel of mosquito abatement districts and other mosquito control programs. To ensure best results applications shall be made when temperatures are greater than 70°F.

For best results, apply Mosquito Mist Ultra when insects are most active and meteorological conditions are conducive to keeping the spray cloud near the ground. Aerial applications using aircraft equipped with global positioning systems (GPS) may be needed to compensate for windy conditions and to ensure drift into target areas.

IN FLORIDA: Do not apply by aircraft unless approved by the Florida Department of Agriculture and Consumer Services.

STORAGE AND DISPOSAL

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

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

Pesticide Disposal: Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of at or by an approved waste disposal facility.

Container Disposal: Nonrefillable Container: Metal or Plastic Container. Do not reuse or refill container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities, such as burning in plastic containers. If burned, stay out of smoke. Triple rinse as follows:

- Container 5 gallons or less: Empty the remaining contents into application equipment and drain for 5 seconds after the flow begins to drip. Fill the container ¾ full with water and recap. Shake for 10 seconds. Pour rinse into mix tank or store rinse for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Once cleaned, offer for recycling or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill or by other procedures approved by State and local authorities. Do not cut or weld metal containers.

- Container larger than 5 gallons: Empty the remaining contents into application equipment. Fill the container ¾ full with water. Replace and tighten closures. Tip container on its side and roll back and forth, ensuring at least one complete revolution, for 30 seconds. Blend the container on its end and tip 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. Once cleaned, offer for recycling or reconditioning if appropriate.

- Pressure rinse as follows (all sizes): Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds of the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinse for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

- Refillable container: Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before reusing is the responsibility of the refiller.

Return container to point of purchase for reuse with seal intact and in suitable condition. Before reusing, inspect thoroughly for damage such as cracks, punctures, bulges, dents, abrasions, and damaged or worn threads on closure devices. After filling and before transporting, check for leaks. Do not refill or transport damaged or leaking container.

To clean the container before final disposal, empty the remaining contents from the container into application equipment or mix tank. Fill the container about ¾ full with water. Agitate vigorously or agitate water with pump for 2 minutes. Pour or pump rinse into application equipment or refill collection container. Repeat this rinsing process two or more times. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or by incineration, if allowed by State and local authorities, by burning, if burned, stay out of smoke.

NOTICE: Buyer and user assume all risk and liability of use, storage and/or handling of this product not in accordance with the terms of this label.