KEEPS OUT OF REACH OF CHILDREN

CAUTION

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta haya sido explicado ampliamente

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 a doctor.
• Do not give any liquid to the person.
• Do not give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN: Contains petroleum distillate - vomiting may cause aspiration pneumoniac.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information regarding medical emergencies of pesticide incidents, call 1-800-284-4660.

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE) Mixers, loaders, applicators, and other handlers must wear the following: long-sleeved shirt, long pants, shoes and socks. See engineering controls for additional requirements.

USER SAFETY REQUIREMENTS Follow manufacturer’s instructions for cleaning/maintaining PPE. If no instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent material that have been drenched or heavily contaminated with the product’s concentrate. Do not reuse them.

USER SAFETY RECOMMENDATIONS Users should wash hands before eating, drinking, chewing gum, or using tobacco. 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. As soon as possible, wash thoroughly and change into clean clothing.

ENGINEERING CONTROLS Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(6)). Human flagging is prohibited. Flagging to support aerial applications is limited to the use of the Global Positioning System (GPS) or mechanical flaggers.

ENVIRONMENTAL HAZARDS

This pesticide is highly 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. 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 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 rinsates or washwaters. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply to or allow drift onto blooming crops or weeds when bees are foraging in 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.

PHYSICAL OR CHEMICAL HAZARDS

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.

USE RESTRICTIONS

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.

IN CALIFORNIA: This product is to be applied by County Health Department, State Department of Health Services, Mosquito and Vector Control or Mosquito Abatement District personnel only.

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

Do not treat a site with more than 0.0036 lb. of each a.i., Sumithrin and piperonyl butoxide and 0.00072 lbs. of each Sumithrin in a single application or in any 24-hour period. Do not apply more than 0.0108 lb. each of Sumithrin and piperonyl butoxide and 0.0022 lb. of Sumithrin in the same treatment area in a 7 day period. Do not apply more than 0.0026 lbs. of each Sumithrin and piperonyl butoxide and 0.00043 lbs. of Sumithrin in the same treatment area in a 1 month period. Do not exceed 0.07 lbs. of Sumithrin or piperonyl butoxide or 0.02 lb. Sumithrin per acre in a single application, or 0.004 lb. of Sumithrin or piperonyl butoxide per acre, for any aerial application made within the first 24 hours after a rainfall of 0.07 inches.

NOTE: When rotating products with other insecticides containing piperonyl butoxide, do not exceed 2 lbs. PBO per acre per year.

Spray applications shall not be made within 250 feet of blooming crops, from treated areas or deposition of spray droplets into a body of water may be hazardous to 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. 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 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 rinsates or washwaters. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply to or allow drift onto blooming crops or weeds when bees are foraging in 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.

USE INFORMATION

DUET is approved for application as a thermal aerosol and as an Ultra Low Volume (ULV) nonthermal aerosol (cold fog) in mosquito adulticiding programs involving outdoor residential, urban, industrial, and recreational areas where adult mosquitoes are present in annoying numbers, and in vegetation surrounding parks, woodlands, swamps, marshes, overgrown areas and golf courses.

DUET may be applied over crops or to areas favoring drift over crops, including row, tree, fruit, citrus, pasture and other areas where agricultural enterprises take place.

SPRAY DROPLET SIZE DETERMINATION

Ground-based, wide area mosquito abatement application: Spray equipment must be adjusted so that the volume median diameter (VMD) is less than 30 microns (Dv 0.5 = 30 um) and that 90% of the spray is contained in droplets smaller than 50 microns (Dv 0.9 < 50 um). 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.

Aerial Equipment: wide area mosquito abatement application: Spray equipment must be adjusted so that the volume median diameter produced is less than 80 microns (Dv 0.5 < 80 um) and that 90% of the spray is contained in droplets smaller than 115 microns (Dv 0.9 < 115 um). The effects of flight speed and, for non-rotary atomizers, nozzle angle on the droplet size spectrum must be considered. Directions from the equipment manufacturer or vendor, pesticide registrant, or a test facility using a wind tunnel and 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.

GROUND ULV APPLICATION

To control mosquitoes and other listed insects, apply DUET at a flow rate of 2.6 to 7.8 fluid ounces per minute at an average vehicle speed of 10 mph using a swath width of 300 feet for acreage calculations (see chart below). For best results, apply when mosquitoes are most active and meteorological conditions are conducive to keeping the spray cloud close to the ground. Certain mosquito species such as Aedes aegypti and Aedes albopictus, are most active during the day. Application in calm air conditions is to be avoided. Apply only when ground wind speed is greater than or equal to 1 mph. All types of applications should be conducted at temperatures above 50 °F. Under normal residential conditions a flow rate of 4.8 fluid ounces per minute at an average vehicle speed of 10 mph is recommended. If a different vehicle speed is used, adjust rate accordingly. These rates are equivalent to 0.00024 to 0.00072 pounds of Sumithrin and 0.00012 to 0.00036 pounds of PBO per acre. Vary flow rate according to vegetation density and mosquito population. Use higher flow rate.
DUET May be applied at rates of 0.43 to 1.28 fluid ounces of DUET per acre by fixed wing or rotary aircraft equipped with suitable ULV application equipment. Appropriate spray systems include rotary atomizers, flat fan, high pressure, and high pressure impaction nozzles characterized and oriented to achieve the droplet characteristics specified in this label. DUET may also be diluted with a suitable solvent such as mineral oil and applied by aerial ULV equipment so long as 1.28 fluid ounces per acre of DUET is not exceeded.

**AERIAL APPLICATION**

DUET may be applied at rates of 0.43 to 1.28 fluid ounces of DUET per acre by fixed wing or rotary aircraft equipped with suitable ULV application equipment. Appropriate spray systems include rotary atomizers, flat fan, high pressure, and high pressure impaction nozzles characterized and oriented to achieve the droplet characteristics specified in this label. DUET may also be diluted with a suitable solvent such as mineral oil and applied by aerial ULV equipment so long as 1.28 fluid ounces per acre of DUET is not exceeded. Refer to the dilution tables on this label for flow rate calculations for diluted end-use formulations of DUET. Use the following tables to calculate application rates:

<table>
<thead>
<tr>
<th>Description</th>
<th>Pounds a.i./Acre</th>
<th>Fluid oz./Acre</th>
<th>DUET Fl.oz./Acre</th>
<th>Flow Rates in fluid oz./minute at truck speeds of:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pallethrin</td>
<td>0.00072</td>
<td>0.0036</td>
<td>0.0036</td>
<td>1.2</td>
</tr>
<tr>
<td>Sumithrin®</td>
<td>0.00004</td>
<td>0.0022</td>
<td>0.0022</td>
<td>0.79</td>
</tr>
<tr>
<td>PBO</td>
<td>0.00036</td>
<td>0.0018</td>
<td>0.0018</td>
<td>0.64</td>
</tr>
<tr>
<td>Recommended</td>
<td>0.00024</td>
<td>0.0012</td>
<td>0.0012</td>
<td>0.43</td>
</tr>
</tbody>
</table>

DUET may be applied through truck mounted thermal fogging equipment. Do not exceed the maximum rates listed above. May be applied at speeds of 5 to 20 mph. To reduce oil requirement and sludge buildup in equipment, use a 60-100-second viscosity mineral "fog" oil or other fuel-type oil. Use a clean, well-maintained and properly calibrated fogger. Do not wet foliage since oil based formulations may be phytotoxic.

**Urban ULV Mosquito Control:** DUET may be applied for control of resting or flying adult mosquitoes in urban and industrial areas such as utility tunnels, pipe chases, underground basements, underground passages, parking decks, open parking garages, abandoned warehouses, crawl spaces, uninhabited buildings, rail yards, waste yards, junkyards, tire dumps, and other areas where adult mosquitoes may be found. Apply using mechanical-foggers, or truck-mounted ULV equipment, or other spray equipment suitable for this application. Apply at rates up to but not exceeding 0.0036 lb of each a.i., Sumithrin and piperonyl butoxide and 0.00072 lbs. pallethrin per acre in a single application or in any 24-hour period.

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Store in a cool, dry place. Keep container closed.

**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:**

[For 2.5-gallon Jugs]: Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into a rinse 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. 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 refillable drums & totes]: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into rinsate collection system. Repeat this rinsing procedure two more times. 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 MORE INFORMATION CALL 1-800-323-5727**

**MANUFACTURED FOR:**

CLARKE MOSQUITO CONTROL PRODUCTS, INC.

159 N. GARDEN AVENUE

ROSELLE, ILLINOIS 60172

<table>
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<tr>
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<th>DUET Fl.oz./Acre</th>
<th>Flow Rates in fluid oz./minute at truck speeds of:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pallethrin</td>
<td>0.00072</td>
<td>0.0036</td>
<td>0.0036</td>
<td>1.51</td>
</tr>
<tr>
<td>Sumithrin®</td>
<td>0.00044</td>
<td>0.0022</td>
<td>0.0022</td>
<td>0.98</td>
</tr>
<tr>
<td>PBO</td>
<td>0.00036</td>
<td>0.0018</td>
<td>0.0018</td>
<td>0.80</td>
</tr>
<tr>
<td>Recommended</td>
<td>0.00024</td>
<td>0.0012</td>
<td>0.0012</td>
<td>0.54</td>
</tr>
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</table>

For a 2.5% Sumithrin product, dilute 1 gallon DUET with 1 gallon oil. Finished spray contains 0.179 lbs Sumithrin & PBO and 0.036 pounds Pallethrin per gallon.

<table>
<thead>
<tr>
<th>Description</th>
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<th>Fluid oz./Acre</th>
<th>DUET Fl.oz./Acre</th>
<th>Flow Rates in fluid oz./minute at truck speeds of:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pallethrin</td>
<td>0.00072</td>
<td>0.0036</td>
<td>0.0036</td>
<td>2.57</td>
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<tr>
<td>Sumithrin®</td>
<td>0.00044</td>
<td>0.0022</td>
<td>0.0022</td>
<td>1.57</td>
</tr>
<tr>
<td>PBO</td>
<td>0.00036</td>
<td>0.0018</td>
<td>0.0018</td>
<td>1.28</td>
</tr>
<tr>
<td>Recommended</td>
<td>0.00024</td>
<td>0.0012</td>
<td>0.0012</td>
<td>0.86</td>
</tr>
</tbody>
</table>

For a 2% Sumithrin product, dilute 1 gallon DUET with 1.5 gallons oil. Finished spray contains 0.143 lbs Sumithrin & PBO and 0.029 pounds Pallethrin per gallon.

<table>
<thead>
<tr>
<th>Description</th>
<th>Pounds a.i./Acre</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Pallethrin</td>
<td>0.00072</td>
<td>0.0036</td>
<td>0.0036</td>
<td>3.21</td>
</tr>
<tr>
<td>Sumithrin®</td>
<td>0.00044</td>
<td>0.0022</td>
<td>0.0022</td>
<td>1.96</td>
</tr>
<tr>
<td>PBO</td>
<td>0.00036</td>
<td>0.0018</td>
<td>0.0018</td>
<td>1.61</td>
</tr>
<tr>
<td>Recommended</td>
<td>0.00024</td>
<td>0.0012</td>
<td>0.0012</td>
<td>1.07</td>
</tr>
</tbody>
</table>

**DILUTION CALCULATIONS**

For a 4% Sumithrin product, dilute 1 gallon DUET with 0.25 gallon oil. Finished spray contains 0.29 lbs Sumithrin & PBO and 0.06 pounds Pallethrin per gallon.