

MasterLine[®] AQUA-KONTROL 30 – 30

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.

A Synergized Permethrin Formulation

- For Effective Control of Adult Mosquitoes (including organophosphate resistant mosquitoes), Midges (Biting and Non-Biting) and Blackflies.
- For ULV and Barrier Applications using Ground and Aerial Equipment for control of Adult Mosquitoes and other biting flies.
- Formulation Allows Dilution with Water or Oil.
- May be Applied Undiluted.
- For surface and barrier applications using handheld equipment.
- Compatible with injector mixing systems or other insecticide mixing systems.

ACTIVE INGREDIENTS:

*Permethrin: CAS [52645-53-1].....30.0%

**Piperonyl Butoxide Technical CAS [51-03-6].....30.0%

OTHER INGREDIENTS:40.0%

Contains Petroleum Distillates

TOTAL 100.0%

*(3-phenoxyphenyl)methyl(+/-)Cis/trans 3-(2,2-dichloroethenyl)
2, 2-Dimethyl cyclopropanecarboxylate.

Cis/trans ratio: min. 35% (+/-) cis and max. 65% (+/-) trans.

**[butylcarbityl](6-propylpiperonyl) ether and related compounds

Contains 2.52 lbs. a.i. Permethrin/gallon and 2.52 lbs. a.i. Piperonyl Butoxide/gallon.

KEEP OUT OF REACH OF CHILDREN CAUTION

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

IF SWALLOWED:	Immediately call a Poison Control Center or doctor for treatment. Do not induce vomiting unless told to by a poison control center or doctor. Do not give any liquid to the person. 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 to 20 minutes. Call a poison control center or doctor for treatment advice.
IF IN EYES:	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

HOTLINE NUMBER

Have this product container or label with you when calling a poison control center or doctor or when going for treatment. For information on this product, contact the National Pesticide Information Center, 1-800-858-7378, Monday – Friday, 7:30 AM – 3:30 PM PST. You may also contact the National Poison Control Center, 1-800-222-1222, day or night, for emergency medical treatment information.

Note to Physician: Contains petroleum distillate – vomiting may cause aspiration pneumonia.

Veseris

1102 Avenue R, Grand Prairie, Texas 75050

EPA Registration No. 73748-11
EPA Establishment No. 53883-TX-002

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. Harmful if swallowed. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Personal Protective Equipment (PPE)

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

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.

See Engineering Controls for additional requirements.

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.

User Safety Recommendations:

- 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.

Engineering Controls: Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticide [40 CFR §170.240(d)(6)].

Human flagging is prohibited. Flagging to support aerial application is limited to use of the Global Positioning System (GPS) or mechanical flaggers.

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to aquatic organisms, including fish and aquatic invertebrates. Run-off 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. 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 on blooming crops or weeds while bees are actively visiting the treatment areas, 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 AND CHEMICAL HAZARDS

Do not use, pour, spill 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.

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.

HOW TO APPLY AND WHERE TO USE

MASTERLINE AQUA-KONTROL 30-30 is designed for application as an Ultra-Low Volume (ULV) 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, woodlands, athletic fields, golf courses, playgrounds, recreational areas, overgrown waste areas, roadsides, and other areas where adult mosquitoes and flies may be found. **MASTERLINE AQUA-KONTROL 30-30** 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 houseflies.

MASTERLINE AQUA-KONTROL 30-30 may be applied with ULV aerosol generators, mist-blowers, backpack sprayers, or handheld sprayers. Mist-blowers, backpack sprayers, handheld 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 are conducive to keeping the fog near the ground e.g. cool temperatures, and consistent wind speeds are not greater than 10 m.p.h. Applications during the cool hours of night or early morning are usually preferable. Apply this product only when wind speed is greater than 1 mph. Air temperatures should be greater than 50° F when conducting all types of applications.

Do not treat a site with more than 0.007 lbs. of each active ingredient, permethrin and piperonyl butoxide per acre in a 3-day period. Retreatments within a 3-day period must not exceed 0.007 total lbs. of permethrin in any site. Do not exceed 25 applications of 0.007 lbs. permethrin or piperonyl butoxide per acre at any site in one calendar year, or exceed 0.18 lbs. of permethrin or piperonyl butoxide per acre per site per year. When rotating this product with other insecticides containing piperonyl butoxide, do not exceed 2 lbs. piperonyl butoxide per acre 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 mosquito-borne diseases in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort.

MASTERLINE AQUA-KONTROL 30-30 can be applied to the air column over specific growing crops prior to harvest and range grasses for the control of adult mosquitoes and biting flies within or adjacent to these areas. Application can be made where the following crops are present:

Alfalfa	Celery	Peaches/Nectarines
Almonds	Cherries	Pears
Apples	Corn (field and pop)	Pepper, bell
Artichoke	Corn, sweet	Pistachios
Asparagus	Eggplant	Potatoes
Avocados	Filberts (Hazelnuts)	Range Grasses
Broccoli	Garlic	Soybeans
Brussels Sprouts	Horseradish	Spinach
Cabbage	Lettuce	Tomatoes
Cantaloupe	Onion, dry bulb	Walnuts
Cauliflower	Papayas (FL only)	

Cucurbit vegetables, including Chayote (fruit), Chinese waxgourd (Chinese preserving melon), Citron melon, Cuban pumpkin, Cucumber, Gherkin, Gourd (edible, includes hyotan, cucuzza, hechima, Chinese okra), Momordica spp. (includes balsam apple, balsam pear, bitter melon, Chinese cucumber), Muskmelon (hybrids and/or cultivars of Cucumis melo including true cantaloupe, cantaloupe, casaba, Crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, snake melon and Winter melon), Pumpkin, Squash (includes summer squash types such as: butternut squash, calabaza, crookneck squash, Hubbard squash, scallop squash, straightneck squash, vegetable marrow and zucchini, and winter squash types such as acorn squash and spaghetti squash), Watermelon (includes hybrids and/or varieties of Citrullus lanatus).

Leafy Vegetables, including Leafy vegetables (except brassica), Amaranth (leafy amaranth, Chinese spinach, tampala), Arugula (Roquette), Chervil, Chrysanthemum (edible leaved and garland), Corn salad, Cress (garden), Cress (upland, yellow rocket, winter cress), Dandelion, Dock (sorrel), Endive (escarole), Lettuce (head and leaf), Orach, Parsley, Purslane (garden and winter), Radicchio (red chicory), Spinach (including New Zealand and vine — Malabar spinach, Indian spinach).

Do not allow spray treatment to drift on cropland (other than crops listed) or water supplies.

In treatment of corrals, feedlots, animal confinements/houses, swine lots and zoos, cover any exposed drinking water, drinking fountains and animal feed before application.

SPRAY DROPLET SIZE DETERMINATION

Ground Application: Spray equipment must be adjusted so the volume median diameter or mass median diameter is less than 30 microns ($Dv\ 0.5 < 30\ \mu m$) and that 90% of the spray is contained in droplets smaller than 50 microns ($Dv\ 0.9 < 50\ \mu m$). 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 product acceptable droplet size spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rates(s) are properly calibrated.

Aerial Application made at ≤ 200 feet above ground elevation: Spray equipment must be adjusted so that the volume median diameter produced is less than 60 microns ($Dv\ 0.5 < 60\ \mu m$) and that 90% of the spray is contained in droplets smaller than 100 microns ($Dv\ 0.9 < 100$ microns). 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 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 Application made at >200 feet above ground elevation: Spray equipment must be adjusted so that the volume median diameter produced is less than 70 microns ($Dv\ 0.5 < 70\ \mu m$) and that 90% of the spray is contained in droplets smaller than 145 microns ($Dv\ 0.9 < 145$ microns). 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 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.

GROUND APPLICATION INSTRUCTIONS

ULV NON-THERMAL AEROSOL (COLD FOG) APPLICATION

Apply through non-thermal ULV application equipment and base all acreage calculations on the equipment manufacturer's recommended swath width.

Apply at a rate not to exceed 0.007 pounds of permethrin per acre. An optimum swath is created when **MASTERLINE AQUA-KONTROL 30-30** 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 are preferable. During applications consistent ground wind speeds should not exceed 10 MPH. Apply this product during cooler hours of the night or early morning.

MASTERLINE AQUA-KONTROL 30-30 may be applied through all ULV cold aerosol generators, or other similar equipment for non-thermal aerosol applications. The desired application rate may be obtained from the chart below or by altering the dilution rate of **MASTERLINE AQUA-KONTROL 30-30**, 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)								
Dilutions Based on a 15 Gallon Tank*								
Application Rate (Pounds of Permethrin a.i./Acre)	Application Rate (Pounds of PBO a.i./Acre)	MASTERLINE AQUA-KONTROL 30-30 fl. oz./Acre	Vehicle Speed (MPH)	Undiluted	Diluted 1:4	Diluted 1:5	Diluted 1:6.5	Diluted 1:9
0.0015	0.0015	0.08	10	0.46	2.32	2.77	3.50	4.7
			15	0.70	3.47	4.15	5.20	7.0
			20	0.93	4.64	5.60	7.00	9.3
0.00175	0.00175	0.09	10	0.55	2.70	3.24	4.05	5.4
			15	0.82	4.05	4.84	6.07	8.1
			20	1.09	5.40	6.48	8.10	10.8
0.0035	0.0035	0.18	10	1.09	5.40	6.48	8.1	10.8
			15	1.65	8.10	9.68	12.1	16.1
			20	2.19	10.8	12.9	16.1	21.5
0.007	0.007	0.36	10	2.19	10.7	12.9	16.1	21.5
			15	3.28	16.1	19.4	24.2	--
			20	4.38	21.4	25.8	--	--

***Dilution Instructions:** Fill tank with appropriate amount of water or oil for the desired dilution, then add **MASTERLINE AQUA-KONTROL 30-30** and mix well. 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 APPLICATIONS

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 0.86 ounces per minute and walk at 4 mph. To apply 0.0035 pounds of permethrin per acre, dilute 1 part **MASTERLINE AQUA-KONTROL 30-30** with 6 parts of diluent and apply at a rate of 3 ounces per minute and walk at 4 mph.

THERMAL AEROSOL APPLICATION

For use in truck-mounted, handheld or other thermal fogging equipment. Apply this product mixed with water or oil at a rate not to exceed 0.007 lbs. per acre. Base acreage calculations on a 300 ft. swath. For best results, direct the thermal fog into and allow to drift through areas where adult mosquitoes are found.

BARRIER APPLICATIONS

To control resting or flying adult mosquitoes in areas such as animal quarters, roadsides, urban areas, residential areas, commercial areas, industrial areas, golf courses, parks, recreational areas, tire piles 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, crawl 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 0.0875 oz. (2.59 ml) in one gallon of water and apply sufficient spray to dampen the surface – approximately 700-750 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 mist-blower equipment apply **MASTERLINE AQUA-KONTROL 30-30** undiluted at a rate not to exceed 5.08 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 foliage 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 passages, parking decks, crawl spaces under buildings, abandoned buildings or uninhabited buildings. Apply **MASTERLINE AQUA-KONTROL 30-30** diluted or undiluted using mechanical foggers, hand-held or truck-mounted ULV equipment, foggers or other spray equipment suitable for this type of application. **MASTERLINE AQUA-KONTROL 30-30** may be applied at rates up to but not exceeding 0.007 lbs. permethrin per acre.

OUTDOOR RESIDENTIAL MISTING SYSTEMS

When using this product installers and service technicians must comply with the license, certification, or registration requirements of the state(s), tribe(s), or local authority(ies) where they are installed.

Use Restrictions:

- Do not apply this pesticide when people, pets, and/or food are present.
- Do not use in an evaporative cooling system.
- Direct nozzles to spray towards the target area and away from swimming pools, water bodies, or eating and cooking areas.
- Do not set nozzles to direct mist near outside air condition systems or other home air intakes.

If used in a system with a reservoir tank for the end use dilution, the system reservoir tank must be locked. Securely attach the end use pesticide label and a dilution statement to the system reservoir tank in a weather protected area or plastic sleeve. The dilution statement must be phrased as follows: **"This container holds 1 part MASTERLINE AQUA-KONTROL 30-30 CONCENTRATE to 219 parts water"** "

If used in a direct injection system, the pesticide container must be locked. Securely attach the end use label to the pesticide container in a weather protected area or plastic sleeve.

If the system works on an automatic timer, set the timing for application when people, pets, and/or food are unlikely to be present.

If the system works when a person operates a remote activation device, then application of this pesticide when people, pets, and/or food are present is prohibited.

Contact the system manufacture for guidance or assistance to ensure compliance with the following requirement:

"This product may only be used in systems that have been calibrated to apply no more than the maximum application rate of 0.25 grams/0.00055 Lbs. permethrin and 0.26 grams/0.00058 lbs. PBO per 1000 cubic feet per day."

AERIAL APPLICATION INSTRUCTIONS

Apply **MASTERLINE AQUA-KONTROL 30-30** either diluted or undiluted at rates up to 0.007 lbs. Permethrin/PBO per acre by fixed wing or rotary aircraft equipped with a spraying system capable of making a ULV application.

For aerial applications of **MASTERLINE AQUA-KONTROL 30-30**, use ULV equipment and nozzles such as rotary atomizers or similar spray equipment.

Aerial application of **MASTERLINE AQUA-KONTROL 30-30** must be made at altitudes ranging from 100 feet to 300 feet. Do not apply when ground wind speed equals 0 MPH or when ground wind exceeds 10 MPH.

Do not apply by a fixed wing air craft at heights less than 100 ft. or by helicopter at a height of less than 75 unless approved by the state or tribe based on public health needs.

Make aerial applications of **MASTERLINE AQUA-KONTROL 30-30** when specified by public health officials and trained personnel of mosquito abatement districts and other mosquito control programs. To ensure best results make applications when temperatures are greater than 50° F.

For best results, apply **MASTERLINE AQUA-KONTROL 30-30** 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.

PROHIBITION FOR AERIAL USE IN FLORIDA: Aerial application of this product is prohibited in the State of Florida unless specifically authorized by the Bureau of Entomology and Pest Control, 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 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: 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 Handling: Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container promptly after emptying. 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. Triple Rinse as Follows:

Containers 5 gallons or less in capacity: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill container 1/4 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.

Containers greater than 5 gallons in capacity: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 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 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.

Pressure Rinse as Follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate 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.

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.

NOTES