

# MASTERLINE

## KONTROL 4 – 4

For Mosquitoes, Flies and Gnats

An All Temperature, Quick Knockdown, Low Odor, Non-Corrosive Synergized Synthetic Pyrethroid for the Control of Adult Mosquitoes in Residential, Recreational, and Other Areas.  
Also for Use Against Biting and Non-Biting Midge and Black Flies

For Application only by Public Health Officials and Trained Personnel of Mosquito Abatement Districts and Other Mosquito Control Programs

### ACTIVE INGREDIENTS:

**Permethrin** (3-phenoxyphenyl)methyl(+/-)Cis/trans 3-(2,2-dichloroethenyl) 2,2-Dimethyl cyclopropanecarboxylate.....4.6%

**Piperonyl Butoxide Technical**  
Equivalent to 80% (butylcarbityl)(6-propylpiperonyl) ether and 20% related compounds.....4.6%

**INERT INGREDIENTS** :.....90.8%

Contains a Petroleum Distillate Solvent

TOTAL.....100.0%

Contains 0.3344 pounds of Permethrin and 0.3344 pounds of Piperonyl Butoxide per gallon.

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

See Side Panel For Additional Precautionary Statements

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

<b>First Aid</b>	
<b>If Swallowed:</b>	Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so 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.
<b>If on Skin or Clothing:</b>	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.
<b>If in Eyes:</b>	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.
<b>If Inhaled</b>	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further advice.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
Note to Physician: Contains petroleum distillate – vomiting may cause aspiration pneumonia.	

NET CONTENTS:

2.5 GAL \_\_\_\_\_

30 GAL \_\_\_\_\_

55 GAL \_\_\_\_\_

275 GAL \_\_\_\_\_

## PRECAUTIONARY STATEMENTS HAZARDS TO DOMESTIC ANIMALS AND HUMANS

Caution: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wear long sleeved shirt and long pants socks and shoes. Wash thoroughly with soap and water after handling.

### ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated sites may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash waters. This product 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.

Note: Do not apply this product within 100 feet (30 meters) of fish bearing areas. Do not allow spray treatment to drift onto pastureland, cropland, poultry ranges or water supplies.

### 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.

### 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:** (Metal) Triple rinse or equivalent. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or by other approved State and local procedures. (Plastic) Triple rinse or equivalent. 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.

**Container Disposal for Refillable Containers:** Replace the dry disconnect cap, if applicable, and seal all openings which have been opened during use.

### BULK STORAGE AND DISPOSAL

#### AGITATE BEFORE USE

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

**Storage:** Ground water contamination may be reduced by diking and flooring of permanent liquid bulk storage sites with an impermeable material.

**Pesticide Disposal:** Pesticide spray mixture or rinsate that cannot be used according to label instructions must be disposed of according to Federal and local procedures under Subtitle C or the Resource Conservation and Recovery Act.

## KONTROL 4- 4 THERMAL AEROSOL FOGGING

**TRUCK MOUNTED:** Apply diluted or undiluted with suitable Thermal Fogging equipment. Do not exceed the maximum a.i./acre rates. May be applied at speeds of 5 to 20 mph, treating a 300 ft. swath. To reduce oil requirement and sludge buildup in equipment, use a suitable mineral oil of 60 – 100 second viscosity. For use with hand foggers, use the same a.i./acre rates and a swath width of 50 ft with a walking speed of 2 mph. Do not wet foliage since the oil base formulation may be phytotoxic. Do not fog when wind conditions exceed 10 miles per hour. Use well maintained and properly calibrated fogger. Fog downwind.

## Suggested Dilution Rates to Achieve 0.00175# a.i. per Acre

			HAND HELD THERMAL FOGGERS 50 FT SWATH AT 2 MPH 0.00318# A.I. PER ACRE	
MACHINE OUTPUT GAL/HOUR	DILUTION RATIO WITH FOG OIL 5MPH	DILUTION RATIO WITH FOG OIL 10 MPH	MACHINE OUTPUT	DILUTION RATE
10 gal/hr	1 : 9.5	1 : 4.25	0.25 gal/hr	1 : 1.2
20 gal/hr	1 : 20	1 : 9.5	2.0 gal/hr	1 : 16.4
30 gal/hr	1 : 30	1 : 14.75	5.0 gal/hr	1 : 42.4
			8.0 gal/hr	1 : 68.4

### NON-THERMAL AEROSOL (COLD FOG)

**KONTROL 4-4** is recommended for application in ultra low volume (ULV) non-thermal aerosol (cold fog) to control adult mosquitoes, flies and gnats in residential and recreational areas where these insects are a problem, such as, but not limited to parks, campsites, woodlands, athletic fields, golf courses, residential areas, municipalities, gardens, playgrounds, recreational areas and overgrown waste areas. For best results, treat when insects are most active and conditions are conducive to keeping the fog close to the ground.

**KONTROL 4 – 4 ULV Non-Thermal Aerosol (cold fog) Application:** To control mosquitoes, midges and blackflies, apply **KONTROL 4 – 4** using any standard ULV ground applicator capable of producing a non-thermal aerosol spray with droplets ranging in size up to 48 micron in diameter and mass medium diameter (MMD) up to 20 microns. Apply the product at a flow rate of 4.1 to 16.2 ounces per minute at an average vehicle speed of 10 mph. If different vehicle speed is used, adjust the rate accordingly. These rates are equivalent to 0.00175 to 0.007 pounds of permethrin and the same amount of 0.00175 to 0.007 pounds of synergist piperonyl butoxide per acre. Vary flow rates accordingly to vegetation density and mosquito population. Use higher flow rates in heavy vegetation or when populations are high. An accurate flow control system must be used to ensure proper flow rate. **KONTROL 4 – 4** may also be applied by diluting with a suitable solvent such as mineral oil and applying so as not to exceed the maximum pounds of active ingredient per acre as shown in the first column of the ULV table shown below. That table represents some suggested application rates for ground ULV applications. If an alternative dilution rate is used, adjust the flow rate accordingly.

### Conditions and Rates to use **KONTROL 4 – 4** Undiluted for Mosquito Control

PERMETHRIN/PBO LBS. A.I./ACRE	APPLICATION RATES/FLUID OUNCES TO USE PER MINUTE			
	5 mph	10 mph	15 mph	20 mph
0.007/0.007	8.1	16.2	24.4	32.5
0.0035/0.0035	4.0	8.1	12.2	16.2
0.00175/0.00175	2.0	4.1	6.1	8.2

### AS A BARRIER SPRAY USING A BACKPACK MISTER TYPE UNIT

For use in a non-thermal, portable, backpack equipment, apply **KONTROL 4 - 4** with a motorized backpack mist blower adjusted to deliver particles of 50 – 100 Mass Medium Diameter. Use undiluted or diluted to achieve an application of 0.00175 / 0.00175 # a.i./acre. Use a 50 ft (15.2m) swath while walking at a speed of 2 mph (3.2 kph). If using a different speed, swath or dilution, do not exceed the maximum a.i./acre.

### AERIAL APPLICATION

The use of aircraft specially equipped and capable of applying ULTRA LOW VOLUMES of **KONTROL 4-4** may be necessary. Such applications should be at the discretion of the Public Health Officials, Mosquito Abatement Districts or others trained in outdoor mosquito and biting fly programs to protect public health. Applications cannot exceed the recommended rates. Aerial applications should be by suitable aerial ULV equipment capable of producing droplets with an MMD of 50 or less, with no more than 2.5% exceeding 100 micron. Flow rate and swath width should be set so as to not exceed 2.7 fluid ounces (0.007# a.i. per acre).

**PROHIBITION FOR AERIAL USE:** Not for aerial application in Florida unless specifically authorized by the Bureau of Entomology and Pest Control, Florida Department of Agriculture and Consumer Services.

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

### BUYER GUARANTEE LIMITED TO LABEL CLAIMS

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EPA Registration No. 73748-4  
EPA Establishment No. 53883-TX-002