



# PERMANONE® 31-66

- \* A SYNERGIZED PERMANONE FORMULATION FOR QUICK KNOCKDOWN AND EFFECTIVE CONTROL OF ADULT MOSQUITOES, GNATS, BITING AND NON-BITING MIDGES, BLACKFLIES AND OTHER BITING FLIES
- \* FOR APPLICATION ONLY BY MOSQUITO ABATEMENT DISTRICTS, PUBLIC HEALTH OFFICIALS, AND OTHER TRAINED PERSONNEL IN MOSQUITO CONTROL PROGRAMS

### ACTIVE INGREDIENTS :

*Permethrin: .....	31.28%
**Piperonyl Butoxide, Technical .....	66.00%
OTHER INGREDIENTS .....	2.72%
	<hr/> 100.00%

\*\*Equivalent to 52.8% (butylcarbityl)(6-propylpiperonyl) ether and 13.2% related compounds.

\*(3-phenoxyphenyl) methyl (+/-) cis/trans 3-(2,2 dichloroethenyl) 2,2 dimethyl cyclopropanecarboxylate Cis/trans ratio: Max 65% (+/-)trans and min. 35% (+/-) cis.

**KEEP OUT OF REACH OF CHILDREN**

## CAUTION

### FIRST AID

IF SWALLOWED: Call a physician or Poison Control Center. Drink one or two glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

IF ON SKIN: Wash with plenty of soap and water and get medical attention.

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration. Get medical attention.

IF IN EYES: Flush eyes with plenty of water. Get medical attention if irritation persists.

**See Back Panel For Additional Precautionary Statements**

EPA REG. NO. 432-1168

EPA EST. NO.

04/00tk

**NET CONTENTS:**

**AVENTIS ENVIRONMENTAL SCIENCE USA LP**

95 Chestnut Ridge Road • Montvale, NJ 07645

In case of Medical emergencies or health and safety inquiries or in case of fire, leaking or damaged containers, information may be obtained by calling 1-800-334-7577.

For Product Information Call Toll-Free 1-800-331-2867

## PRECAUTIONARY STATEMENTS

### Hazards To Humans & Domestic Animals

#### CAUTION

Harmful if swallowed, absorbed through skin or inhaled. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with skin, eyes or clothing. Avoid breathing vapors. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

#### Environmental Hazards

This pesticide is extremely toxic to fish and aquatic invertebrates. For terrestrial uses, do not apply directly to water, or 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 areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters. Do not apply when wind speeds exceed 10 mph.

This pesticide is highly toxic to bees exposed to direct treatment or to residues remaining on the treated areas. Do not apply this product or allow drift when bees are actively visiting the treatment area. Applications should be timed to provide the maximum possible interval between treatment and the next period of bee activity.

#### DIRECTIONS FOR USE

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

##### USE PRECAUTIONS

In treatment of corrals, feed lots, swine lots and zoos, cover any exposed drinking water, drinking fountains and animal feed before application. Do not contaminate pasture land, cropland, poultry ranges or water supplies from spray drift.

Not to be used within 100 feet (30 meters) of lakes and streams. Allow 24 hours before retreating. Do not apply more than once in a 24 hour period.

##### INSECTS CONTROLLED

*Adult mosquitoes, gnats, biting and non-biting midges, black flies, stable flies, horse flies, deer flies and other biting flies.*

#### WHERE TO USE

Areas that may be treated for insect control include, but are not limited to; parks, campsites, woodlands, athletic fields, golf courses, residential areas and municipalities, gardens, playgrounds, recreational areas and overgrown waste areas. Do not use on crops used for food, forage or pasture.

#### USE DIRECTIONS

This product is a synergized concentrate of permethrin containing 2.86 lb/gallon permethrin and 6.09 lb/gallon piperonyl butoxide. It may be applied undiluted or may be diluted with mineral oils (such as Orchem or Klearol), cottonseed oil or other suitable non-phytotoxic ULV-suitable oil. This product is specifically designed to be applied as a ULV spray.

Best results are expected by application when weather conditions favor an inversion of temperatures in the area treated, and when the wind is not excessive. Apply using vehicle mounted non thermal ULV equipment to create an insecticidal swath. Apply when there is a light breeze (i.e. 5 mph) and apply in direction of breeze to obtain maximum swath and better distribution. Early morning and evening are the best times for application.

Temperature fluctuations may require periodical adjustment of equipment to deliver the desired flow rate at the specified speed of travel. This flow rate must be maintained to insure the distribution of the proper amount of active ingredient per acre.

Application can be made with LECO ULV Cold Aerosol Generator, Microgen, Curtis, London Aire or other equipment designed for ULV aerosol generation.

#### \*DIRECTIONS FOR AERIAL APPLICATIONS

This product may be used in fixed-wing and rotary aircraft capable of making a ULV application of undiluted spray formulation. Applications should be made when little or no wind (less than 5 mph) is present at the same target application rates as for ground based ULV.

\*Aerial application not authorized in the State of Florida

#### DIRECTIONS FOR GROUND APPLICATION

Use non-thermal ULV portable backpack sprayer, or vehicle-mounted non-thermal ULV equipment to cover a 300ft. swath width. Adjust to deliver droplets of 15-30 microns mass median diameter. Apply at rate of 0.0035 or 0.007 lb permethrin/acre. This can be achieved under different conditions by altering the dilution rate, flow of insecticide from the vehicle, and vehicle speed as shown in the following.

DILUTION TABLE				
SPACE SPRAY (300' swath width)				
Application Rate	Equipment Speed (mph)	Undiluted	Flow Rate (fl oz/min)	
			*Diluted 1:2	*Diluted 1:4
0.0035 lb ai/acre Permethrin	5	0.5	1.5	2.5
	10	1.0	3.0	5.0
	15	1.5	4.5	7.5
	20	2.0	6.0	10.0
0.007 lb ai/acre permethrin	5	1	3	5
	10	2	6	10
	15	3	9	15
	20	4	12	--

\*Dilution instructions specify volume ratios of product: diluent (ie. 1:2 equals 1 volume part Permethrin mixed with 2 volume parts diluent).

## STORAGE AND DISPOSAL

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

**Storage:** Do not store at temperatures below 40°F (4.5°C). If this material has been exposed to temperatures below 40°F (4.5°C) there may be precipitation. Check for crystallization. If evident, warm to 80°F (26.5°C) and thoroughly mix before using. DO NOT USE OPEN FLAME.

**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:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

## IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following conditions, disclaimer of warranties and limitations of liability.

**CONDITIONS:** The directions for use of this product are believed to be adequate and should be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Aventis Environmental Science USA LP. All such risks shall be assumed by the user or buyer.

**DISCLAIMER OF WARRANTIES:** AVENTIS ENVIRONMENTAL SCIENCE USA LP MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Aventis Environmental Science USA LP is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. Aventis Environmental Science disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.

**LIMITATIONS OF LIABILITY:** THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT AVENTIS ENVIRONMENTAL SCIENCE'S ELECTION, THE REPLACEMENT OF PRODUCT.

©Aventis Environmental Science, 1999

PERMANONE is a Registered Trademark of the Aventis Group.

**Aventis Environmental Science USA LP**  
95 Chestnut Ridge Road  
Montvale, NJ 07645

PERM 31-66-SL-4/00