

14-2597  
 W. J. E. E. W.

# UL-261 MALATHION CONCENTRATE FOGICIDE

**FOR ULTRA LOW VOLUME  
 COLD GENERATOR APPLICATION  
 IN MUNICIPAL AND INDUSTRIAL  
 MOSQUITO CONTROL**

**Active Ingredient** 95.0%  
**Malathion\***  
**Inert Ingredients** 5.0%  
 100.0%  
 \*O, 0-dimethyl phosphorodithioate of diethyl mercaptosuccinate

**DIRECTIONS FOR USE:**

**Adult Mosquito Control:** For control of adult mosquitoes over a 300-foot swath with ULV UL-261 concentrate, use a tank-mounted cold generator following flow rates at the indicated truck speeds:

Truck Speed	Flow rate, ULV UL-261
Miles per Hour	Fluoroglycerol per Minute
5	1 to 2 fluid ounces
10	1 to 3 fluid ounces

Flow rate must be constantly monitored by the operator to maintain uniform control of droplet size.

**SPECIFICATIONS FOR OPERATING EQUIPMENT AND DROPLET SIZE:**

**Operating Equipment**

1. The Ultra Low Volume cold aerosol nozzle for dispersal of UL-261 concentrate and the application of the spray must produce the droplet spectrum described under *Droplet Size*.
2. Tank Pressure - not less than 2 to 3.5 p.s.i. - not greater than 6 p.s.i.
3. No insecticide pump is necessary with the ULV system.
4. Flow Rate - must be regulated by accurate flow meter - not greater than 3.0 fluid ounces per minute.
5. Nozzle Direction - rear of the truck.
6. Vehicle speed - not greater than 15 miles per hour - shut off spray equipment when vehicle stops.

**Droplet Size**

1. Spray droplets must not be less than 5 microns in size as the smaller droplets do not penetrate into the foliage.
2. Spray droplets must not exceed the range of 23 to 27 microns in size as larger droplets do not penetrate into the foliage as readily on objects in their pathway and will permanently damage automobile paint.
3. More than one-half of the total spray mass must consist of droplets in the 10 to 15 micron size range over a 300-foot swath.
4. A minimum of two-thirds, preferably four-fifths, of the total spray mass must consist of droplets in the 10 to 15 micron size range.
5. The mass median diameter (MMD) of the droplets should not exceed 14 microns. The MMD is the diameter of the droplet which divides the volume into two equal parts, i.e. 50% of the volume is in the droplet size less than the MMD and 50% is in the droplet size greater than the MMD.
6. The average diameter of the droplets should not exceed 12 microns.

**IMPORTANT: If the above specifications cannot be met, do not use UL-261 for cold generator ULV application. Each shipment of UL-261 is accompanied by a detailed brochure giving complete instructions for determining the droplet size. File this brochure in an accessible place where it may be referred to as necessary.**

**GENERAL INFORMATION:**

UL-261 is most economical for use because of its effectiveness in killing mosquitoes, its low toxicity to mammals, its low volatility, its low odor, its low cost, its low requirement for sludge inhibitors, reduces labor, storage and handling requirements, its stability, its low toxicity to beneficial insects, and its low toxicity to the environment.

Ground application of UL-261 by the ULV method is effective only as a contact application. The spray must be applied during the evening to early morning and be timed to coincide with the greatest activity of the mosquitoes. The spray must be applied to the foliage allowing the mist to remain close to the ground and not rise above the foliage. The spray must be applied to the foliage of the trees with the area to be treated on the down wind side. Heavy infestations which require 6 to 8 oz. of UL-261 per acre may require application of 6 to 8 oz. of UL-261 per acre.

**IMPORTANT NOTICE:**

UL-261 is to be applied only by trained personnel of mosquito abatement districts or health departments. Undiluted spray droplets of UL-261 will permanently damage automobile paint. The spray should not be applied to the windshield. This product is toxic to fish. Keep out of eyes, streams and ponds. Do not use in areas where there are children or livestock. This product is highly toxic to honey bees and should be applied only to areas where there are no bees. Do not use in areas where there is a beekeeping service. Apply this product only as specified on the label and do not apply to areas where there are children or livestock. Conditions favor drift from areas treated. Do not reuse empty drum or container. Destroy it by perforating at the top and burying it in a shallow hole away from water supply. United Laboratories does not assume any responsibility for damage which results from failure to properly purchase, maintain or operate any ULV equipment, or from failure to determine or to obtain proper droplet size. Buyer assumes the risk of any damage, injury, loss of property, or under conditions not reasonably foreseeable by United Laboratories Inc.

**COLD GENERATOR APPLICATION  
IN MUNICIPAL AND INDUSTRIAL  
MOSQUITO CONTROL**

**Inert Ingredients** ..... 5.0%  
..... 100.0%  
**\*0, 0-dimethyl phosphorodithioate of  
diethyl mercaptosuccinate**

**DIRECTIONS FOR USE:**

**Adult Mosquito Control:** For control of adult mosquitoes over a 300-foot swath with UL-261 using the ULV method, use the following flow rates at the indicated truck speeds:

Truck Speed Miles per Hour	Flow Rate Gallons per Minute
5	1.0
10	2.0

Flow rate must be constantly monitored by the operator to maintain the correct spray rate.

**SPECIFICATIONS FOR OPERATING EQUIPMENT AND DROPLET SIZE:**

**Operating Equipment**

1. The Ultra Low Volume cold generator nozzle for dispersal of UL-261 must be of the type which produces the droplet spectrum described under "Droplet Size".
2. Tank Pressure - not less than 2 to 3.5 p.s.i. - not greater than 6 p.s.i.
3. No insecticide pump is necessary with the ULV system.
4. Flow Rate - must be regulated by accurate flow meter - not greater than 3 parts in 100 error.
5. Nozzle Direction - rear of the truck.
6. Vehicle speed - not greater than 10 miles per hour - shut off spray equipment when vehicle is stopped.

**Droplet Size**

1. Spray droplets must not be less than 5 microns in size as the smaller droplets do not impinge readily on vertical surfaces.
2. Spray droplets must not exceed the range of 23 to 27 microns in size as larger droplets, when transported by wind currents, impinge more readily on objects in their pathway and will permanently damage automobile paint.
3. More than one-half of the total spray mass must consist of droplets in the 5 to 15 micron range to achieve adequate dispersal of insecticide over a 300-foot swath.
4. A minimum of two-thirds, preferably four-fifths of the total spray mass must consist of droplets in the 5 to 15 micron range.
5. The mass median diameter (MMD) of the droplets should not exceed 14 microns. The MMD is the drop diameter which divides the spray volume into two equal parts, i.e. 50% of the volume is in the drop size below the MMD and 50% above the MMD.
6. The average diameter of the droplets should not exceed 12 microns.

**IMPORTANT: If the above specifications cannot be met, do not use UL-261 for cold generator ULV application. Each shipment of UL-261 is accompanied by a detailed brochure giving complete instructions for determining the droplet size. File this brochure in an accessible place where it may be referred to as necessary.**

**GENERAL INFORMATION:**

UL-261 is most economical for use because it is effective in killing mosquitoes, eliminates the need for parathion, is practically non-toxic to fish and for sludge inhibitors, reduces labor, storage and handling requirements, eliminates the need for insecticide carriers, and produces the smallest amount of insecticide applied to the environment.

Ground application of UL-261 by the ULV method is effective only as a contact application. Application of UL-261 should be made from evening to early morning and be timed to coincide with the greatest activity of mosquitoes. Wind direction should be considered to allow the mist to remain close to the ground, and the wind should not be greater than 10 miles per hour. Areas of heavy mosquito infestation with the area to be treated on the down-wind side. Normal infestations will require 4 to 4.5 oz. of UL-261 per acre, very heavy infestations may require application of 6-8 oz. of UL-261 per acre.

**IMPORTANT NOTICE:**

UL-261 is to be applied only by trained personnel of mosquito abatement districts and other agencies who have the proper equipment. Undiluted spray droplets of UL-261 will permanently damage automobile paint and other painted surfaces. The following instructions are followed:

This product is toxic to fish. Keep out of lakes, streams and ponds. Do not contaminate water used for drinking purposes. This product is highly toxic to birds. Do not expose to pre-treatment. Protective equipment should be worn during application. For technical assistance contact your distributor. Apply this product to water bodies in the late afternoon or evening. Wind direction should be considered to avoid drift from areas treated.

Do not reuse empty drum or container. Destroy it by perforating and burning in a fireproof container away from water bodies.

United Laboratories does not assume any responsibility for damages when results are not satisfactory due to improper operation of ULV equipment, or from failure to determine or to obtain proper droplet size. Buyer assumes that the product is used in accordance with the label under conditions not reasonably foreseeable by United Laboratories.

EPA Reg. No. 9250-14

Net Contents

**CAUTION: KEEP OUT OF REACH OF CHILDREN  
HARMFUL BY SWALLOWING, INHALATION OR SKIN CONTACT**

**Avoid Breathing Spray Mist - Avoid Contact With Skin  
Wash Thoroughly After Handling  
Change Contaminated Clothing  
Do Not Contaminate Food or Food Products**

SOLD BY  
**UNITED LABORATORIES, INC.**  
ADDISON, ILL. 60101  
ATLANTA DENVER RENO

See additional cautions before use