

11-DEC-2009
2009-3384

BASE

GROUP	1B	INSECTICIDE
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MALATHION 95 ULV

INSECTICIDE
COMMERCIAL

CAUTION
POISON

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

GUARANTEE: Malathion 96.5%
REGISTRATION NO. 25638
PEST CONTROL PRODUCTS ACT

UNITED AGRI PRODUCTS CANADA INC.
789 Donnybrook Drive
Dorchester, Ontario
N0L 1G5
1-800-265-4624

NET CONTENTS: 205 L

09/05

FRONT

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PRECAUTIONS

- KEEP OUT OF REACH OF CHILDREN
- Wash thoroughly with soap and water after handling.
- DO NOT contaminate food, feed, fertilizers or seed.
- Remove contaminated clothing.
- Hazardous if swallowed, inhaled or absorbed through skin.
- DO NOT treat dairy barns.
- Avoid breathing spray mist.
- DO NOT apply to pastures while occupied by dairy animals.
- Avoid contact with skin, eyes or clothing.
- DO NOT treat any plants while in bloom. This product is also toxic to bees exposed to direct treatment or residues on crops. This product is toxic to fish. DO NOT contaminate any body of water by direct application, cleaning of equipment or disposal of wastes and containers.

FIRST AID

If on skin or clothing, take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre 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 centre or doctor for treatment advice. If swallowed, call a poison control centre or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION

Symptoms of Poisoning: - headache, weakness, sweating, giddiness, blurred vision, nausea, abdominal cramps, diarrhea and discomfort in the chest.

Antidote: - If accidental poisoning occurs, atropine is antidotal. Pralidoxime chloride (2-PAM; PROTOPAM chloride) may be effective as an adjunct to atropine. For severe cases, administer 4 to 8 mg of atropine sulfate intravenously at intervals of 10 to 15 minutes until atropinization is achieved. For less severe cases, administer 2 to 4 mg intramuscularly at 30-minute intervals. When signs of full atropinization appear, reduce dosage and frequency to 1 mg every 2 to 4 hours. Full atropinization should be maintained for at least 24 hours from beginning of treatment. For children administer proportionately lower dosages based on body weight.

REFILLABLE CONTAINER: For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not reuse container for any other purpose.

DISPOSAL

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on the disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

DATAPAK

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- Avoid breathing spray mist.
- DO NOT apply to pastures while occupied by dairy animals.
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- DO NOT treat any plants while in bloom. This product is also toxic to bees exposed to direct treatment or residues on crops. This product is toxic to fish. DO NOT contaminate any body of water by direct application, cleaning of equipment or disposal of wastes and containers.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at: www.croplife.ca.

FIRST AID

If on skin or clothing, take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre 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 centre or doctor for treatment advice. If swallowed, call a poison control centre or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

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RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that MALATHION 95 ULV Insecticide contains a Group 1B insecticide/acaricide. Any insect/mite population may contain individuals naturally resistant to MALATHION 95 ULV Insecticide and other Group 1B insecticide/acaricide. The resistant individuals may dominate the insect/mite population if this group of insecticides/acaricides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but are specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay insecticide/acaricide resistance:

- Where possible, rotate the use of MALATHION 95 ULV Insecticide or other Group 1B insecticides/acaricides with different groups that control the same pathogens.
- Avoid application of more than the indicated number of sprays of MALATHION 95 ULV Insecticide or other insecticides/acaricides in the same group in a season.
- Use tank mixtures with insecticides/acaricides from a different group when such use is permitted.
- Insecticide/acaricide use should be based on an IPM program that includes scouting, record keeping and considers cultural, biological and other chemical control practices.
- Monitor treated pest populations for resistance development.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information and to report suspected resistance, contact the Technical Service, United Agri Products, 1-800-265-4624 or at www.uap.ca.

DIRECTIONS FOR USE

MALATHION 95 ULV is used undiluted in specially designed aircraft or ground equipment capable of applying ultra low volumes for control of the insects indicated.

FOR AERIAL APPLICATION

Where aerial use is appropriate, suitable and safe.

Directions for Use

Apply only by fixed-wing or rotary aircraft equipment which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label.

Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate recommended for aerial application on this label. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment.

Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices or GPS navigation.

Use Precautions

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application as outlined in the *National Aerial Pesticide Application Manual*, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides.

Exercise special care: Use the correct equipment for the job.

Use sufficient water for even distribution.

Use low nozzle pressures (Below 300 kPa).

Use appropriate buffer zones around sensitive areas such as water, urban and residential areas.

Do not spray in winds exceeding 10-15 km per hour.

Do not spray in dead calm near sensitive plants or when wind velocity and direction pose a risk of spray drift.

A cloud of suspended droplets may drift onto sensitive plants when the wind comes up.

Spray only when the wind is blowing away from a sensitive crop, shelter belt or garden.

Operator Precautions

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted.

It is desirable that the pilot have communication capabilities at each treatment site at the time of application.

The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label.

All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

Mist blowers and boom sprayers utilizing a controlled air flow to facilitate particle size and spray deposition may be used at a vehicle speed of 5 - 15 km/h.

For information concerning aircraft or ground application equipment suitable for applying MALATHION 95 ULV insecticide, contact United Agri Products at 1-519-268-8001.

Before using, read the instructions contained in this label for the proper methods and procedures which must be followed to achieve effective insect control and avoid permanent damage to automobile and other paint finishes. Cars and trucks should not be sprayed directly. If accidental exposure does occur, the vehicle should be washed immediately.

UNDILUTED SPRAY DROPLETS OF MALATHION 95 ULV WILL PERMANENTLY DAMAGE AUTOMOBILE PAINT UNLESS THESE SPECIFIC INSTRUCTIONS FOR GROUND AND AERIAL APPLICATION ARE FOLLOWED.

MALATHION 95 ULV, can be effectively applied with conventional aircraft spray equipment by making a few minor modifications to the plumbing and boom assembly.

PUMP

Pumps capable of producing pressures of 275-350 kPa will be satisfactory. A bleed line, at least 5 mm in diameter should be installed on the high point of the impeller chamber to release trapped air. This line should bleed back to the top of the tank above the liquid level.

BY-PASS

A by-pass is required from the spray pump outlet to the spray pump inlet. This line must be equal in diameter to the pump outlet and should contain a valve controllable from the cockpit that will permit adjustments of boom pressure in flight. The by-pass commonly used to recirculate MALATHION 95 ULV to the spray tank must be closed to avoid aeration of the insecticide.

BOOM AND NOZZLE PLACEMENT

The distance between the left and right outboard nozzles should be at least 3/4 of the wing span. The total number of nozzles used should be equally spaced across this span if the aircraft is flown at six metres or higher. Trailing edge booms are desirable and the nozzles should be placed on the boom where pilot can readily see them to check for plugging during spray operation. A bleed line at least 5 mm in diameter should be attached to the outer end of each boom and routed back to the top of the spray tank but above the liquid level. This line will bleed off pressure and prevent sharp cut-off. If a nozzle is placed at each end of boom, as many Ag Cat spray booms are assembled, this bleed line is not necessary.

NOZZLES

Use at least 4 to 6 flat fan nozzles, such as Spraying Systems 8001, 80015, or 8002 for small aircraft, such as Piper Pawnees and Stearmans. For aircraft operating at 240 km/h or faster, use 10 to 14 of the 8010 or 8015 flat fan nozzles. Nozzles should be pointed

straight downward on small aircraft and straight back for faster aircraft. Use 100 mesh screens with 8001, 80015 and 8002 nozzles. Diaphragm check valves should be used on each nozzle to insure positive cut-off of spray during flight. Do not use cone nozzles. Rotary atomizers, commonly known as Mini-Spin nozzles, developed by the Plant Pest Control Division, USDA, can be substituted for the flat fan nozzles. Use the same flat nozzle tips as mentioned above when using the Mini-Spin nozzles.

AGRICULTURAL USES

Repeat applications of MALATHION 95 ULV should be made as necessary unless otherwise indicated.

CROP	PESTS CONTROLLED	L/HA	DAYS TO HARVEST OR GRAZING
Alfalfa	Alfalfa weevil larvae DIRECTIONS: Apply when day temperatures are expected to exceed 18°C and when 50%-75% of the leaves show feeding damage. DO NOT apply to seed alfalfa or when alfalfa is in bloom.	1.1 L	5
Cereal crops (barley, oats, wheat), grasses or Legumes grown for hay	Armyworms DIRECTIONS: Apply when larvae appear. Cereal leaf beetles DIRECTIONS: Apply when adult beetles area active. Repeat application at the higher rate within 2-14 days for control of adults and young larvae.	425-550 mL 275-550 mL	7
Clover	Greenworms DIRECTIONS: DO NOT apply when clover is in bloom.	550 mL	7
Grass: Pasture and Range	Grasshoppers DIRECTIONS: May be grazed or harvested on day of application.	550-850 mL	
Canola	Diamondback moth larvae	275-425 mL	7
Feedlots, Stabling areas, Pastures	Houseflies, Stable flies, Mosquitoes DIRECTIONS: Apply from an altitude of 6 to 7.5 m when wind velocity is below 15 km/h and temperatures are below 28°C.	425-500 mL	

MOSQUITO AND FLY CONTROL

I. Ultra Low Volume Aerial Application where Automobiles, Trailers, Trucks are present.

Aerial spraying should not be attempted when the wind is at or above 15 km/h or temperature are above 27°C.

Undiluted spray droplets of MALATHION 95 ULV will permanently damage vehicle paint finishes unless the fixed wing aircraft used for the ultra low volume application meets all of the specifications listed below:

1. Aircraft is operated at 240 km/h or more.
2. There are no leaks in the ultra volume low spray system.
3. Nozzles are placed on the boom at a 45° angle down and into the wind.
4. Diaphragm check valves are used on all nozzles to insure positive cut-off of the spray.
5. Dosage of MALATHION 95 ULV does not exceed 200 mL/ha when spraying where vehicles are present.
6. The spray system produces droplets of this product in the 50 to 60 mass median diameter (MMD) micron range, with no more than 10% of the droplets exceeding 100 microns, as determined by readings made from microscope slides coated with Dri-Film. For information on determination of droplet size, request additional data from United Agri Products.
7. Use recommendations:

Adult mosquitoes, Houseflies, stable flies in feedlots, stabling areas and pastures. 425 - 550 mL/ha

IN RESIDENTIAL AREAS, RATES MUST NOT EXCEED 260 g a.i./ha (i.e. 274 mL product/ha).

Residential areas are defined as sites where bystanders including children may be potentially exposed during or after spraying. This includes around homes, schools, parks, playgrounds, playing fields, public buildings or any other areas where the general public including children could be exposed.

Consult Provincial/Territorial pesticide regulatory officials for required authorization.

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Product Act to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

NATURE OF RESTRICTION: This product is to be used only in the manner authorized; contact local pesticide regulatory authorities about use permits which may be required.

RESTRICTED USE

Mosquito larvae: Apply this product to breeding areas at the rate of 425-550 mL/ha.

DO NOT apply to public waterways or to water draining into public waterways.

II. Ultra Low Volume Applications of Nonthermal Aerosols Applied by Ground Equipment.

NOTICE: MALATHION 95 ULV SHOULD BE APPLIED ONLY BY TRAINED PERSONNEL OF MOSQUITO ABATEMENT DISTRICTS OR PEST CONTROL OPERATORS WHO HAVE THE KNOWLEDGE AND EXPERIENCE NECESSARY TO FOLLOW THE HIGHLY TECHNICAL AND SPECIFIC INSTRUCTIONS.

OPERATING EQUIPMENT

Each Nonthermal Aerosol Generator used for dispersal of MALATHION 95 ULV Insecticide, to control adult mosquitoes must have minimum capability of producing the droplet spectrum described below under DROPLET SIZE. The initial determination of droplet size is made after the unit is installed in a vehicle and prior to its use in mosquito control operations. The unit should be rechecked as frequently as necessary to insure that proper droplet size is maintained for each operation. Determination of droplet size every two months is usually sufficient if the unit has been maintained in good operating condition. Equipment manufacturer's instructions setting forth cleaning and maintenance of the unit must be followed. The unit must be inspected before each operation to correct any leak or obstructions in the spraying system; to detect whether the nozzle, hose or other parts are worn and need replacement; to insure that the flow metre is properly calibrated; and to determine the pressure recommended by the manufacturer is being maintained.

Flow rates:

Adult Mosquito Control - For control of adult mosquitoes over a 100 m swath with nonthermal aerosols of MALATHION 95 ULV using the ultra low volume method, use the following flow rates at the indicated vehicle speeds:

Vehicle Speed km/h	Flow Rate of MALATHION 95 ULV Millilitres per minute
8	30 - 60
15	60 - 120

Adult Stable Fly Control - For control of adult stable flies over a 100 m swath with nonthermal aerosols of MALATHION 95 ULV using the ultra low volume method, use the following flow rates at the indicated vehicle speeds:

Vehicle Speed km/h	Flow Rate of MALATHION 95 ULV Millilitres per minute
8	60
15	120

Flow Rate - must be regulated by accurate flow metre. The flow rate must be constantly monitored by the operator to maintain uniform control of the discharge rate.

Nozzle Direction - rear of the vehicle upward at an angle of 45° or more.

Vehicle Speed - not greater than 15 km/h. Shut spray equipment off when vehicle is stopped.

IMPORTANT: Spray droplets of undiluted MALATHION 95 ULV insecticide will permanently damage automobile paint unless all conditions described and recommended in this leaflet are met.

Mist blowers with a pump capable of producing up to 275 kPa and blower speeds of 2600 rpm are satisfactory. Use flat fan nozzles 8001 to 8002 placed 30° into air blast or rotary atomizers into the air blast that produce an efficient spray particle with a mass medium diameter of 40 to 100 microns. Swath widths should not exceed 10 metres and applications should not be made when winds exceed 8 km/h.

Boom sprayers with a filtered rotary air compressor, either PTO or gas engine driven or an air pump capable of producing at least 80 kPa are satisfactory. Use air pressure on chemical tanks and an accurate metering valve to assure a calibrated flow of the pesticide. Air should be regulated with relief valve and gauge for proper air liquid mixture. Pneumatic-type spray nozzles, as suggested by equipment manufacturer, should be used for spray particles with mass medium diameter of 30 to 100 microns. Applications should not be made when winds exceed 8 km/h.

DROPLET SIZE

1. The mass median diameter (MMD) of the droplets should not exceed 17 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 sizes below the MMD and 50% is above the MMD.
2. Spray droplets should not exceed 32 microns in size. Three percent of the spray droplets (6 droplets out of 200) can exceed 32 microns providing the MMD does not exceed 17 microns and no droplets exceed a maximum of 48 microns. Larger droplets when transported by natural air currents, impinge more readily on objects in their pathway and will permanently damage automobile type paints.
3. More than one-half of the total spray mass must consist of droplets in the 6 to 18 micron range to achieve adequate dispersal of insecticide over a 100-metre swath.
4. A minimum of two-thirds, preferably four-fifths of the total spray mass must consist of droplets not exceeding 24 microns in range.
5. Spray droplets should not be less than 5 microns in size as the smaller droplets do not impinge on adult mosquitoes.

DIRECTIONS FOR DETERMINING THE DROPLET SIZE OF MALATHION 95 ULV ULTRA LOW VOLUME NONTHERMAL AEROSOLS

I. Preparation of Slides

MALATHION 95 ULV droplet sizes are determined by depositing a sample of the aerosol on a coated glass slide and measuring the droplets under a high-power microscope. Ordinary 75 x 25 mm glass slides must be coated with silicone (General Electric SC-87 Dri-Film) prior to sampling to prevent excessive spreading or coalescence of the droplets. The slides are dipped into a 10 percent solution of Dri-Film in toluene, drained and dried at about 95°C for 30 minutes, after which they are dipped in acetone, allowed to dry and stored in a tight slide box. Coating solution must be freshly prepared. Do not store coating solutions because it will deteriorate. Slides are lightly polished with a soft tissue before using to remove any foreign particles.

II. Deposition of MALATHION 95 ULV Droplets on Slides

Droplets should be collected under ideal operating conditions to insure representative sampling of droplets in the aerosol. A sample of the MALATHION 95 ULV aerosol is deposited on a slide by waving the slide as rapidly as possible perpendicular through the aerosol cloud at a distance of 8 M from the point of discharge. The slide velocity may be increased by attaching it to a 1 - 1.5 metre stick by means of a spring paper clip. At least two slides should be exposed to insure an adequate sample. Store slides in a tight slide box for transfer to a location where measurements can be made. Avoid excessive heat during transit and store in a cool place until measurements can be made.

Although label specifications require the aerosol nozzle to be angled upward at 45° or more during operation, it is more convenient to position the nozzle parallel to the ground for droplet sampling. If this is not possible it will be necessary for it to be positioned at a sufficient height to obtain a representative sample of the aerosol.

III. Determination of MALATHION 95 ULV Droplet Sizes

A microscope with mechanical stage and an eyepiece micrometre are used to determine the size of the individual aerosol droplets. Prior to taking measurements, the divisions of the eyepiece micrometre must be calibrated into microns by means of a stage micrometre. In the example represented in Table 1, droplets were measured at 400x magnification. At that magnification each division of the eyepiece was calibrated to equal 3.5 microns.

At least 200 droplets should be measured. Usually this is easily accomplished on one slide. An accurate method is to measure all droplets that pass through the micrometre scale as the slide is moved from one edge to the other by using the mechanical stage. Measurements should not be taken along the margins of the slide. It is more convenient to measure in terms of the divisions of the eyepiece micrometre and then convert these divisions into microns.

The measurements converted into microns must then be corrected for the amount of spread that occurred on the slides. The MALATHION 95 ULV spread factor for silicone coated slides is 0.5. Therefore, in Table 1 each division of the eyepiece actually equals 1.75 microns (3.5 microns times the 0.5 spread factor).

The measurements are tabulated and processed as in Table 1. The maximum Diameter is calculated by converting the diameter of the largest droplet measured into microns. In Table 1, the largest droplet measured had a diameter of 19 eyepiece divisions. Therefore, the Maximum Diameter is 33.3 microns (19 x 1.75 = 33.3).

To determine the Mass Median Diameter (MMD), the accumulative percentage from the last column in Table 1 are plotted against the eyepiece divisions (D) on arithmetic probability paper as in Figure 1. Directly across from the 50 percent point on the line is the median droplet size in eyepiece divisions which must be converted to microns. In Figure 1, 9.2 eyepiece divisions times the conversion factor of 1.75 equals a Mass Median Diameter of 16.1 microns).

Table 1 - Representative Count of MALATHION 95 ULV Liquid Insecticide Droplets Impinging on Microscopic Slides

Eyepiece Divisions (D)*	Number of Droplets	D x N	% of Total D x N ÷ S D x N	Accumulative Percentages
1	5	5	0.31	0.31
2	10	20	1.22	1.53
3	9	27	1.65	3.18
4	12	48	2.93	6.11
5	15	75	4.58	10.69
6	12	72	4.40	15.09
7	25	175	10.70	25.79
8	14	112	6.85	32.64
9	28	252	15.40	48.04
10	19	190	11.61	59.65
11	14	154	9.41	65.06
12	10	120	7.33	76.39
13	6	78	4.77	81.16
14	4	56	3.42	84.58
15	11	165	10.09	94.67
16	2	32	1.96	96.63
18	2	36	2.20	98.83
19	1	19	1.16	99.99
Total	199	1636		

*Measurements were taken at 400x magnification. Each eyepiece division equals 1.75 microns (3.5 microns times the 0.5 spread factor).

REFILLABLE CONTAINER: For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not reuse container for any other purpose.

DISPOSAL

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on the disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

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This label transcript service is offered by the Pest Management Regulatory Agency to provide efficient searching for label information. This service and this information do not replace the official hard-copy label. The PMRA does not provide any guarantee or assurance that the information obtained through this service is accurate, current or correct, and is therefore not liable for any loss resulting, directly or indirectly, from reliance upon this service.