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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

MAR 30 2005

Ms. Carrie Crawford
Value Gardens Supply, LLC
P.O. Box 585
ST. Joseph, MO 64502

Subject: Deletion of Unsupported Malathion Uses
SMCP Malathion ULV Concentrate Insecticide
EPA Reg. No. 769-700
Federal Register Notices of March 18, 1991 and August 5, 1998

Dear Ms. Crawford:

The labeling on file reflecting the removal of unsupported uses, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, As Amended (FIFRA), is acceptable with the condition that you correct the label as cited below and submit two copies of your corrected final printed label before you release the product for shipment.

1. Update the label ingredient statement to be consistent with that of your updated supplier label. A copy of the updated supplier label is enclosed for your reference.

2. Either add the restriction cited below to the use on rice listed under the "Other Agricultural Uses" heading or refer the user to this restriction which appears elsewhere on the label for the rice use under the heading, "Agricultural Uses".

"Broadcast use only over intermittently flooded areas. Application may not be made around bodies of water where fish or shellfish are grown and/or harvested commercially."

3. Relocate the two drift statements from outside the Agricultural Use Requirements box to inside the box. They are not appropriate for the non agricultural use of the product as a widespread public health use against mosquitoes.

4. Expand the storage instructions so that they are consistent with those on your supplier label.

5. Since the use on cotton has been removed from the label, also remove the tank mix directions for the cotton insect pests.

6. Remove instructions for use of the product as a formulating use product. Such instructions are not appropriate for the subject product which is an end-use product.

7. Add the statement below to the end of the first paragraph in the Environmental Hazards section.

For aquatic uses, do not apply directly to water except as specified on this label.

8. Relocate the bee caution statements from the present location in the directions for use to the end of the Environmental Hazards section as a separate second paragraph and revise them to read as cited below so that they are consistent with the 1988 malathion Reregistration Standard.

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 if bees are visiting the treatment area.

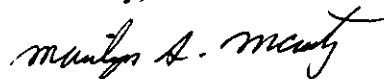
9. Remove instructions to the user to consult or contact American Cyanamide Company. The Company is no longer the registrant of the supplier malathion product.

10. Update the registrant name and address on the label to reflect the current name and address.

If this condition is not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product bearing the amended label constitutes acceptance of this condition.

A stamped copy of the label is enclosed for your records.

Sincerely,



Marilyn A. Mautz

Biologist

Insecticide-Rodenticide Branch

Registration Division (7504C)

Enclosures: Stamped label
Supplier label

Container Label

SMCP MALATHION ULV* CONCENTRATE INSECTICIDE

Active Ingredient:	
Malathion (0,0-dimethyl phosphorodithioate of diethyl mercaptosuccinate)	95.0%
Inert Ingredients:	5.0%
Total:	100.0%

*Trademark of American Cyanamid Company
One gallon contains 9.7 lbs. of malathion

EPA Reg. No. 769-700

EPA Est. No. 769-GA-1

ACCEPTED
with COMMENTS
in EPA Letter Dated:

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

See Back Panel for Additional Precautionary Statements

STATEMENT OF PRACTICAL TREATMENT

MAR 30 2005
Under the Federal Insecticide
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
769-700

If Swallowed: Call a physician or Poison Control Center immediately. If possible, vomiting should be induced under medical supervision. Drink one or two glasses of water and induce vomiting by touching the back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person.

If Inhaled: Remove victim to fresh air. Apply artificial respiration if indicated.

If On Skin: Remove contaminated clothing and wash affected areas with soap and water.

If in Eyes: Flush with plenty of water. Call a physician immediately.

Note To Physician: Malathion is a cholinesterase inhibitor. If symptoms of cholinesterase inhibition are present, atropine sulfate is antidotal. 2-PAM is also antidotal and may be administered in conjunction with atropine.

Before using, read directions 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.

NET CONTENTS: 2 1/2 Gallon

Manufactured by:
SureCo, Inc.
Fort Valley, GA 31030

PRECAUTIONARY STATEMENTS
Hazards To Humans and Domestic Animals
CAUTION

Harmful by swallowing, inhalation or skin contact. Avoid breathing spray mist. Avoid contact with skin or eyes.

Personal Protective Equipment:

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category F on an EPA chemical resistance category selection chart.

Applicators and Other Handlers Must Wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber or Viton
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations:

Users Should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

This product is toxic to fish, aquatic invertebrates, and life stages of amphibians. 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. Drift and runoff may be hazardous to aquatic organisms in areas near the application site. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment, or disposal of wastes. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where these are important resources. Apply this product only as specified on this label.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

Malathion ULV Concentrate Insecticide may only be used in accordance with the directions in the attached Malathion ULV Concentrate Insecticide label or approved supplementary labeling. Read all directions carefully before using.

Before using Malathion ULV Concentrate Insecticide for the preparation of malathion insecticides, manufacturers should consult American Cyanamid Company for manufacturing and handling instructions. Each formulator is responsible for obtaining EPA registration for his end use product(s).

Undiluted spray droplets of Malathion ULV Concentrate Insecticide will permanently damage automobile paint. If accidental exposure does occur, the vehicle should be washed immediately.

Note to Formulators: Malathion ULV Concentrate Insecticide may be used for the preparation of malathion insecticides. Before using for this purpose, manufacturers should consult American Cyanamid Company for manufacturing and handling instructions. Each formulator is responsible for obtaining EPA registration for his end use product(s).

MOSQUITO CONTROL IN POPULATED AND RURAL AREAS

IMPORTANT NOTICE: TO BE APPLIED ONLY BY TRAINED PERSONNEL OF PUBLIC HEALTH ORGANIZATIONS, MOSQUITO ABATEMENT DISTRICTS OF PEST CONTROL OPERATORS.

AERIAL APPLICATION

ADULT MOSQUITO CONTROL OVER CITIES, TOWNS AND OTHER AREAS WHERE AUTOMOBILES, TRAILERS, TRUCKS AND PLEASURE BOATS ARE PRESENT: Apply 2.6 to 3.0 fluid ounces of Malathion ULV Concentrate Insecticide per acre. Apply only when weather conditions are favorable. Wind and rising air currents may cause undesirable spray drift and reduce insect control.

IMPORTANT - Undiluted spray droplets of Malathion ULV Concentrate Insecticide will permanently damage vehicle paint finishes unless the aircraft used for the ultra low volume application meets all of the specifications listed below.

Fixed Wing Aircraft

1. Aircraft is operated at 150 mph or more.
2. There are no leaks in the ultra low volume 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 ULV Concentrate Insecticide does not exceed 3 fluid ounces per acre.
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* or TEFLON®.

Helicopter**Equipment specifications**

1. Rotary nozzle equivalent to Beecomist Spray Head Assembly Model 350 equipped with:
 - a). a direct reading RPM tachometer or low RPM signal light readily visible to operator;
 - b). a stainless steel porous metal sleeve, 20 micron pore size, dynamically balanced to the nozzle;
 - c). a diaphragm check valve as near to the rotary nozzle as possible to insure positive cut off of the spray;
 - d). nozzle on-off switch separate from main switch and pump switch.
2. Minimum no-load nozzle speed of 10,500 RPM
3. A continuous nonpulsating metered flow must be maintained by a variable speed metering pump equipped with:
 - a). a positive cut off valve between tank and pump;
 - b). a flow gauge or tachometer visible to operator;
 - c). a pump on-off switch separate from main switch and nozzle switch.
4. Maximum flow rate of 0.5 gallon per minute per nozzle.
5. Rotary nozzle must be mounted behind and below the boom with the sleeve directed toward the rear of the aircraft and parallel to the ground during flight. Nozzle must be positioned to minimize air turbulence and the collection of MALATHION ULV CONCENTRATE INSECTICIDE droplets on mounting brackets, feeding lines, fittings, etc., or any part of the aircraft.

Operating Procedures

1. MALATHION ULV CONCENTRATE INSECTICIDE must be prefiltered through a 10 micron filter prior to transfer into helicopter tank. A 50 mesh stainless steel line strainer must be installed in the pump feed line.
2. Entire system, including tank, pump, nozzle and feed lines, to be used only for application of MALATHION ULV CONCENTRATE INSECTICIDE.
3. Entire system must be inspected daily to insure that there are no leaks.
4. Sleeve must be removed and cleaned immediately after each use by washing with hot water and blowing dry from outside in with clean air.
5. Rotating nozzle must be turned on and operating before turning on pump. For shut off, pump must be shut off and lines cleared prior to stopping nozzle rotation.
6. Dosage of MALATHION ULV CONCENTRATE INSECTICIDE does not exceed 3 fluid ounces per acre.
7. the spray system must produce droplets of MALATHION ULV CONCENTRATE INSECTICIDE with a mass median diameter (MMD) of less than 50 microns, with no more than 2.5% of the droplets exceeding 100 microns, as determined by readings made from microscope slides coated with DRI-FILM or TEFLON.

*Trademark of General Electric Company ®Registered Trademark of E.I. duPont de Nemours & Co., Inc.

GROUND APPLICATION

Thermal Aerosols or Fogs

For control of adult mosquitoes with thermal aerosols or fogs, apply MALATHION ULV CONCENTRATE INSECTICIDE at the rate of 6-8 oz. actual/gallon (3.9-5.2 gallons MALATHION ULV CONCENTRATE INSECTICIDE in 100 gallons finished solution*) by ground equipment delivering 40 gallons per hour at a vehicle speed of 5 miles per hour to treat a swath width of 300-400 feet.

*There is a great variation in the chemical composition of fuel oils which may be used as thermal fog solvents. These differences may cause sludge and/or affect the solubility of the MALATHION ULV CONCENTRATE INSECTICIDE. For more complete details on tests for sludge formation and solubility in thermal fog solutions, write American Cyanamid Company, Agricultural Division, One Cyanamid Plaza, Wayne, New Jersey 07470.

SEE ATTACHED INSERT

STORAGE AND DISPOSAL

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

Storage: Avoid storage at high temperatures. Protect from moisture. Avoid contamination with water, acids or alkalis. Do not store near heat or open flame. Keep container closed. Store in original containers only. Separate pesticides to avoid cross-contamination of other pesticides, fertilizer, food and feed. Keep container in locked storage areas. If spilled, absorb with dry material such as sand or sawdust and sweep up for disposal.

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess of pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Container Disposal: a) Metal - Triple rinse (or equivalent) and offer for recycling or reconditioning or dispose of in a sanitary landfill or by other approved State and local procedures. b) Plastic - Triple rinse (or equivalent) and offer for recycling or reconditioning or by disposal in a sanitary landfill or by incineration if permitted by State and local authorities.

Booklet

**PRECAUTIONARY STATEMENTS
Hazards To Humans and Domestic Animals
CAUTION**

Harmful by swallowing, inhalation or skin contact. Avoid breathing spray mist. Avoid contact with skin or eyes.

Personal Protective Equipment:

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category F on an EPA chemical resistance category selection chart.

Applicators and Other Handlers Must Wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber or Viton
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations:

Users Should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

This product is toxic to fish, aquatic invertebrates, and life stages of amphibians. 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. Drift and runoff may be hazardous to aquatic organisms in areas near the application site. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment, or disposal of wastes. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where these are important resources. Apply this product only as specified on this label.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard. Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Chemical-resistant gloves, such as Barrier Laminate, Butyl Rubber, Nitrile Rubber or Viton
- Shoes plus socks

Nonthermal Aerosols

Over a 300-foot swath can be produced using the nonthermal ultra low volume aerosol method with MALATHION ULV CONCENTRATE INSECTICIDE. Use the following rates at the indicated vehicle speeds

Vehicle Speed miles per hour	Flow Rate of MALATHION Fluid Ounces per Minute	Maximum Flow Rate per Hour
5	1.0 to 2.1 fluid ounces	1 gallon
10	2.0 to 4.3 fluid ounces	2 gallons
15	3.0 to 6.45 fluid ounces	3 gallons
20	4.0 to 8.6 fluid ounces	4 gallons

For control of adult stable fly in populated and rural areas with nonthermal aerosols of MALATHION ULV CONCENTRATE INSECTICIDE using the ultra low volume method, use the following flow rates at the indicated vehicle speeds

Vehicle Speed Miles per Hour	Flow Rate of MALATHION Fluid Ounces per Minute	Maximum Flow Rate per Hour
5	2.1 fluid ounces	1 gallon
10	4.3 fluid ounces	2 gallons

DROPLET SIZE

- 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.
- 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.
- 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 300-foot swath.
- A minimum of two-thirds, preferably four-fifths of the total spray mass must consist of droplets not exceeding 24 microns in range.

OPERATING EQUIPMENT

Each Nonthermal Aerosol Generator used for dispersal of MALATHION ULV CONCENTRATE to control adult mosquitoes must have minimum capability of producing the droplet spectrum described 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 leaks or obstructions in the spray system, to detect whether the nozzle, hoses, or other parts are worn and need replacement, to insure that the flow meter is properly calibrated, and to determine that the pressure recommended by the manufacturer is being maintained.

Flow Rate — must be regulated by accurate flow meter. Not greater than 1 gallon per hour at 5 mph, 2 gallons per hour at 10 mph, 3 gallons per hour at 15 mph or 4 gallons per hour at 20 mph.

Nozzle Direction — rear of the vehicle. Upward at an angle of 45° or more.

Vehicle Speed — not greater than 20 miles per hour. Shut off spray equipment when vehicle is stopped.

IMPORTANT — Spray droplets of undiluted MALATHION ULV CONCENTRATE will permanently damage automobile paint unless all the conditions described and recommended in this label are met.

Figure 1

Percentage of the total volume of aerosol samples below each stated droplet size (from Table 1). The Mass Median Diameter is determined from the 50 percent point on the line. The Mass Median Diameter (MMD) = 9.2 divisions times POUNCE* insecticide 3.2 E.C. 1.75 = 16.1 microns.

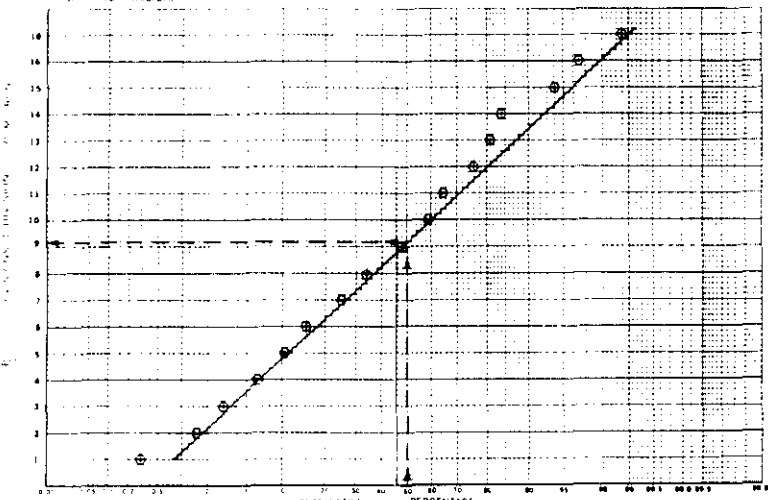


Table 1 — Representative Count of MALATHION ULV Aerosol Droplets Impinged on Microscope Slides Coated with DRI-FILM

Eye-piece Divisions (D*)	Number of Droplets (N)	DxN	% of Total DxN $\sum (DxN)$	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	69.06
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 eye-piece division equals 1.75 microns (3.5 microns times the 0.5 spread factor).

FOR CONTROL OF BOLL WEEVIL AND BOLLWORM/BUDWORMS (CYTHION + Pyrethroid Tank Mixes)

Pyrethroids	Fluid Ounces/Acre	Comments
PAY-OFF* insecticide 2.5 E.C.	1.3-4.0	Tank mix with 12-16 fl. oz. of Malathion ULV and apply as a 1 quart finished spray per acre in once-refined cottonseed or vegetable oil. Consult the pyrethroid label for detailed directions.
PYDRIN* insecticide 2.4 E.C.	5 1/2-10 1/2	FOR POUNCE tank mix with 12-16 fl. oz. of Malathion ULV. Add these materials to one quart of once-refined cottonseed or vegetable oil and apply this mixture with proper application equipment.
POUNCE* insecticide 3.2 E.C.	2.0-8.0	

Directions for Determining the droplet size of MALATHION ULV CONCENTRATE nonthermal aerosols

Permanent records of each droplet size determination must be kept and made available to American Cyanamid Company upon request.

1. Preparation of Slides with DRI-FILM

MALATHION ULV CONCENTRATE 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 3" x 1" 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 200°F 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 solution because it will deteriorate. Slides are lightly polished with a soft tissue before using to remove any foreign particles.

2. Deposition of MALATHION ULV CONCENTRATE 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 ULV CONCENTRATE aerosol is deposited on a slide by waving the slide as rapidly as possible perpendicular through the aerosol cloud at a distance of 25 feet from the point of discharge. The slide velocity may be increased by attaching it to a 3 or 4 foot 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 to be positioned at a sufficient height to obtain a representative sample of the aerosol.

3. Determination of MALATHION ULV CONCENTRATE Droplet Sizes

A microscope with mechanical stage and an eyepiece micrometer are used to determine the size of the individual aerosol droplets. Prior to taking measurements, the divisions of the eyepiece micrometer must be calibrated into microns by means of a stage micrometer. 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 micrometer 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 division of the eyepiece micrometer 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 slide. The MALATHION ULV CONCENTRATE 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 spread factor for TEFLON-coated slides is 0.69. The following procedure as given for silicone-coated slides would be the same for TEFLON-coated slides once the value for each eyepiece division has been determined. 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 percentages from the last column in Table 1 are plotted against the eyepiece divisions (D) on the semi-logarithmic 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.

AGRICULTURAL USES

Do not use this product for any uses other than those specified herein.

Malathion is used undiluted in specially designed aircraft or ground equipment capable of applying ultra low volumes for control of the insects indicated below. Aerial applications are most effective when made at a boom height of 5 feet and a swath width of 50 feet. Do not make application when winds exceed 5 mph. 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 4 to 10 mph. Mist blowers with a pump capable of producing up to 40 psi and blower speeds of 2600 rpm are satisfactory. Use flat fan nozzles, 8001 or 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 30 feet, and applications should not be made when winds exceed 5 mph.

Boom sprayers with a filtered rotary air compressor, either PTO or gas engine driven or an air pump capable of producing at least 12 psi, are satisfactory. Use air pressure on chemical tanks and an accurate metering valve to assure a medium diameter of 30 to 100 microns. Applications should not be made when winds exceed 5 mph.

Repeat applications should be made as necessary unless otherwise specified.

IMPORTANT

Undiluted spray droplets of MALATHION ULV CONCENTRATE INSECTICIDE will permanently damage automobile paint. Car should not be sprayed. If accidental exposure does occur, the car should be washed immediately. Consult your state experiment station or state extension service for proper timing of sprays.

This product is highly toxic to bee exposed to direct treatment or residues on crops. Protective information may be obtained from your Cooperative Agricultural Extension Service.

Crop	Pests Controlled	Fluid Ounces Per Acre	Days to Harvest or Grazing and Comments
Alfalfa NOTE: Do not apply to Alfalfa in bloom. Do not apply to seed Alfalfa.	Alfalfa Caterpillar	8	0 day. Apply when larvae are small.
	Western Yellow Striped Armyworm	12	5 days. Apply when larvae are large or when foliage is dense
	Alfalfa Weevil Larvae	16	5 days. Apply when day temperatures are expected to exceed 65° F and when 50-75% of leaves show feeding damage
	Beet Armyworm	8 16	0 day. Apply when larvae are small. 5 days. Apply when larvae are large or when foliage is dense.
	Grasshoppers	8	May be applied on day of harvest or grazing.
Beans, dry and succulent including chickpea, garbanzo, fava beans)	Aphids, Bean leaf and Blister beetles, Cucumber beetles, Mexican bean beetle, Leafhoppers, Green Cloverworm, Japanese Beetle, Lygus bug, Red spider mite	8	1 day. Grazing or feeding of treated crop foliage by livestock is prohibited.
Blueberries	Blueberry Maggot	10	0 day.
Cherries	Cherry Fruit Fly	12-16	1 day. Apply by aircraft only. Use higher rate when foliage is heavy or infestation is severe. Make first

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			application as soon as flies appear. Northwest U.S. & Michigan only.
Cereal Crops (Barley, Corn, Oats, Wheat)	Cereal Leaf Beetle	4-8	Barley, Oats, Wheat: 7 days of harvest or forage use. Corn: 5 days. Grasses: May be applied on day of harvest or grazing.
Clover, Pasture and Range Grass, Grass, Grass Hay, Non-Agricultural Land (wasteland, roadsides, soil bank lands)	Grasshoppers	8	May be applied on day of harvest or grazing. Do not apply to clover in bloom
Corn	Adult Corn Rootworm	4	5 days.
Grain Crops (Barley, Corn, Oats, Rye, Rice, Grain Sorghum and Wheat)	Grasshoppers	8	7 days. Corn: 5 days of harvest or forage use.
Grain Sorghum	Sorghum Midge	1-12	Apply during the bloom stage. 7 days of harvest or forage use. Grazing or feeding of treated crop foliage by livestock is prohibited.
Rice - Grain Form (Louisiana, Texas)	Rice Stink Bug	8	7 days. Apply by aircraft only. Apply during early milk and dough state of growing rice. Broadcast use only over intermittently flooded areas. Application may not be made around bodies of water where fish or shellfish are grown and/or harvested commercially.
Non-Agricultural Lands	Adult Flies and Mosquitoes	6-8	0 day.

OTHER AGRICULTURAL USES

Alfalfa, Clover, Pasture and Range Grass, Grass and Grass Hay, Grain Crops (Barley, Corn, Oats, Rye, Rice, Grain Sorghum and Wheat), Beans, Rice and Non-Agricultural Lands (wastelands, soil bank lands) - Adult Mosquitoes and Flies: Apply MALATHION ULV CONCENTRATE INSECTICIDE at the rate of 2 to 4 fluid ounces for control of adult mosquitoes and at 6 to 8 fluid ounces per acre for control of adult flies and mosquitoes. Repeat applications as necessary. On Alfalfa, Clover, Pasture and Range Grass, Grass and Grass Hay: May be applied on day of harvest or grazing. Do not apply to Alfalfa and Clover in bloom. Do not use on seed Alfalfa. Grazing or feeding of treated crop foliage by livestock is prohibited. On Grain Crops (Barley, Corn, Oats, Rye, Rice, Grain Sorghum and Wheat): Make no application within 7 days of harvest or forage use. Grazing or feeding of treated crop foliage by livestock is prohibited. On Corn: Within 5 days of harvest or forage. On Rice: Within 7 days of harvest. On Beans: Within 1 day of harvest.

STORAGE AND DISPOSAL

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

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Storage: Avoid storage at high temperatures. Protect from moisture. Avoid contamination with water, acids or alkalis. Do not store near heat or open flame. Keep container closed. Store in original containers only. Separate pesticides to avoid cross-contamination of other pesticides, fertilizer, food and feed. Keep container in locked storage areas. If spilled, absorb with dry material such as sand or sawdust and sweep up for disposal.

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess of pesticide, spray mixture, or dilute is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Container Disposal: a) Metal - Triple rinse (or equivalent) and offer for recycling or reconditioning or dispose of in a sanitary landfill or by other approved State and local procedures. b) Plastic - Triple rinse (or equivalent) and offer for recycling or reconditioning or by disposal in a sanitary landfill or by incineration if permitted by State and local authorities.

IMPORTANT: Read these entire Directions and Conditions of Sale before using this product. **DISCLAIMER:** SureCo warrants that this product conforms to the chemical description on the label and is reasonably fit for the specific purposes referred to in the Directions For Use, subject to the inherent risks referred to above. SureCo makes no other express or implied warranty of fitness or merchantability nor any other express or implied warranty. In no case shall SureCo be liable for consequential, special, or indirect damages resulting from the use, handling or application of this product.

NOTICE: Buyer assumes all risks of use, storage, or handling of this material not in strict accordance with directions given herewith.