

# MIXING CHART — GROUND APPLICATIONS:

USAGE	DOSAGE BAYTEX LIQ. CONC.	AMOUNT OF LIQUID CONCENTRATE NEEDED FOR GIVEN AREA			
		6 acres	25 acres	50 acres	100 acres
Ground Application: Mosquito Larvae	2/3 fl. oz. per acre	1/4 pint	1 pint	1 quart	1/2 gallon
Thermal Fog:		212 acres	530 acres	1590 acres	2650 acres
(Standard Calibration)	1/2 fl. oz. per gal.	1 1/4 pints in 40 gal. oil	3 pints in 100 gal. oil	9 1/2 pints in 298 gal. oil	2 gallons in 498 gal. oil
	1 fl. oz. per gal.	2 1/2 pints in 40 gal. oil	6 pints in 100 gal. oil	18 1/2 pints in 298 gal. oil	4 gallons in 496 gal. oil
Mist Spray:		85 acres	170 acres	510 acres	850 acres
(Standard Calibration)	2/3 fl. oz. per acre	3 1/2 pints in 50 gal. water	7 pints in 99 gal. water	2 1/2 gal. in 297 gal. water	4 1/2 gal. in 496 gal. water
	1 1/3 fl. oz. per acre	7 pints in 50 gal. water	7 quarts in 98 gal. water	5 1/2 gal. in 295 gal. water	9 gal. in 491 gal. water
Residual Spray:		2,500 sq. ft.	5,000 sq. ft.	12,500 sq. ft.	25,000 sq. ft.
	5/6 fl. oz. per gal.	4 ozs. in 5 gal. water	1/2 pint in 10 gal. water	1 1/4 pints in 25 gal. water	2 1/2 pints in 50 gal. water
	1 1/3 fl. oz. per gal.	1/2 pint in 5 gal. water	1 pint in 10 gal. water	2 1/2 pints in 25 gal. water	5 pints in 50 gal. water

# MIXING CHART — AIR APPLICATIONS:

Low Volume Sprays:		160 acres	320 acres	400 acres	480 acres
(Applying total volume of 1 qt. per acre)	2/3 fl. oz. per acre	6 3/4 pints in 39 gal. oil	1 1/2 gal. in 78 gal. oil	2 gal. in 98 gal. oil	2 1/2 gal. in 117 gal. oil
	1 1/3 fl. oz. per acre	1 1/2 gal. in 38 gal. oil	3 1/2 gal. in 76 gal. oil	4 gal. in 96 gal. oil	5 gal. in 115 gal. oil
Conventional Sprays:		40 acres	80 acres	100 acres	120 acres
(Applying total volume of 1 gal. per acre)	2/3 fl. oz. per acre	1 1/4 pints in 40 gal. oil	3 1/4 pints in 79 gal. oil	4 pints in 99 gal. oil	5 pints in 119 gal. oil
	1 1/3 fl. oz. per acre	3 1/2 pints in 39 gal. oil	6 1/2 pints in 79 gal. oil	1 gal in 99 gal. oil	1 1/4 gal. in 118 gal. oil

INSECT	Flow Rate of BAYTEX LC FLUID OUNCES PER MINUTE
Mosquitoes (Adults)	0.3 to 0.5
(Florida, Texas, Mississippi, Arkansas, Tennessee, Louisiana, Alabama, & Georgia Only)	0.6 to 1.0 0.9 to 1.5 1.2 to 2.0

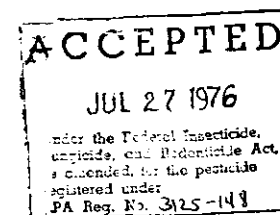
TRUCK SPEED MILES PER HOUR
5
10
15
20

REMARKS

ULTRA-LOW VOLUME NONTHERMAL AEROSOL: Use the flow rates at the indicated truck speeds to cover a 300 foot swath. Use a machine designed specifically for ULV cold fogging. Repeat applications as necessary.

NOTE: Spray droplets should have a median droplet size range from 5 to 20 microns with a Mass Median Diameter (MMD) not to exceed 15 microns. Droplets 45 microns or larger may cause permanent damage to automobile paint finishes.

The method for determining the range and mass median diameter of the particles will be provided by the manufacturer upon request.



# BAYTEX

## LIQUID CONCENTRATE INSECTICIDE

FOR EFFECTIVE CONTROL OF MOSQUITOES AND FLIES AND  
FOR USE IN THE MANUFACTURE OF ECONOMIC POISONS

One gallon contains 9.67 lbs.  
O,O-Dimethyl O-[3-methyl-4-  
(methylthio)phenyl] phosphoro-  
thioate

NET CONTENTS 30 GALLONS  
NET WEIGHT 312 POUNDS

## WARNING

KEEP OUT OF REACH OF  
CHILDREN

(See rear panel for warning statements.)

ACTIVE INGREDIENTS:  
fenthion O,O-Dimethyl O-[3-methyl-  
4-(methylthio)phenyl] phos-  
phorothioate† ..... 93%  
INERT INGREDIENTS: ..... 7%  
100%

†U.S. Patent No. 3,042,703\*  
Canadian Patent No. 631,472

EPA Reg. No. 3125-148-AA

STOP — READ THE LABEL BEFORE USE

# 110 613

Chemagro  
Agricultural Division  
Möbay Chemical Corporation  
Box 4913, Kansas City, Missouri 64120

3125-148

07/27/1976

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## DIRECTIONS FOR USE

**IMPORTANT:** Read these entire Directions and Conditions of Sale before using BAYTEX Liquid Concentrate.

**CONDITIONS OF SALE:** THE DIRECTIONS ON THIS LABEL WERE DETERMINED THROUGH RESEARCH TO BE THE DIRECTIONS FOR CORRECT USE OF THIS PRODUCT. THIS PRODUCT HAS BEEN TESTED FOR A RANGE OF WEATHER CONDITIONS SIMILAR TO THOSE WEATHER CONDITIONS THAT ARE ORDINARY AND CUSTOMARY IN THE GEOGRAPHIC AREA WHERE THE PRODUCT IS USED. FAILURE TO FOLLOW THESE DIRECTIONS OR THE OCCURRENCE OF WEATHER CONDITIONS THAT ARE EXTRA-ORDINARY OR UNUSUAL FOR THE USE AREA MAY RESULT IN UNSATISFACTORY PERFORMANCE OF THE PRODUCT. CHEMAGRO AND THE SELLER OFFER, AND THE BUYER ACCEPTS AND USES, THIS PRODUCT SUBJECT TO THE AFOREMENTIONED CONDITIONS WHICH ARE BEYOND THE CONTROL OF CHEMAGRO AND THEREFORE THE RESPONSIBILITY OF THE BUYER.

AREA MOSQUITO APPLICATIONS TO POPULATED AND RURAL AREAS ARE TO BE MADE ONLY BY MOSQUITO ABATEMENT DISTRICTS, PUBLIC HEALTH OFFICIALS, PUBLIC MOSQUITO CONTROL OFFICIALS, AND COMMERCIAL PEST CONTROL OPERATORS. CONSULT YOUR STATE FISH AND GAME AGENCY BEFORE APPLYING THIS PRODUCT.

BAYTEX Liquid Concentrate is recommended for use wherever mosquitoes and flies are a problem, except in water where shrimp, crabs, or crayfish are of value. BAYTEX should not be used on food crops other than rice. BAYTEX provides long residual control and is effective against both non-resistant strains and those resistant to certain chlorinated hydrocarbons. The spray can be applied to most surfaces, including freshly whitewashed area, without loss of biological effectiveness.

**MOSQUITO CONTROL ON ALFAFA AND PASTURE GRASS:** Apply 2/3 to 1 1/3 fluid ounces (0.05 to 0.1 lb. active) per acre of BAYTEX Liquid Concentrate in a water emulsion as directed under "RECOMMENDED APPLICATIONS." Apply once per cutting on alfalfa, and up to 4 times per year on pasture grass without removal of grazing livestock.

**MOSQUITO CONTROL IN RICE (CALIFORNIA ONLY):** Apply 2/3 to 1 1/3 fluid ounces (0.05 to 0.1 lb. active) per acre of BAYTEX Liquid Concentrate in a water emulsion as directed under "RECOMMENDED APPLICATIONS." Apply no more than 3 times per crop year nor within 30 days of harvest of rice. Do not apply to a second rice crop in areas where double cropping is the agricultural practice.

**MIXING:** BAYTEX Liquid Concentrate contains no emulsifying agents and should be used diluted only with oil carriers such as No. 2 fuel oil (diesel) or kerosene except where it is desirable to use water as a carrier, such as in the treatment of forage crops and rice where oil mixtures should not be used. For applications where water is used as the carrier, sufficient quantities of suitable emulsifiers(1) should be added to the BAYTEX Liquid Concentrate prior to mixing with water. If emulsifiers are to be added, at least an equal amount of an aromatic solvent (xylene types) should also be added. The solvent decreases the viscosity of the concentrate and facilitates mixing of the emulsifiers. Consider the added emulsifiers and solvents as a portion of the diluent when calculating the desired dosage.

These water or oil mixtures are suitable for use in hand or power-operated sprayers or foggers as well as with aircraft sprayers or in mist-type applicators. To mix with oil, pour required amount of BAYTEX Liquid Concentrate into full amount of oil and then agitate. Do not apply oil mixtures to forage crops or rice. If the mixture of BAYTEX and oil, prepared according to label directions, is to be held in prolonged storage, it is necessary to add an anti-sludge agent (2) to the mixture.

(1) Recommended emulsifiers are Toximul P, or a 50/50 blend of Emcol N-1428 and N-139B. Use 1/2 to 1 pint of emulsifier per gallon of BAYTEX Liquid Concentrate.

(2) The addition of a suitable anti-sludge agent at the rate of 2 to 4 quarts per 100 gallons of BAYTEX Liquid Concentrate finished spray.

**NOTE:** Information on other emulsifiers and anti-sludge agents that are suitable for use are available from your dealer.

**DOSAGE:** Use specified dosage of BAYTEX Liquid Concentrate in the amount of water or oil necessary to give uniform coverage. In the treatment of forage lands and rice, water only should be used as a carrier. The type of equipment used will determine the concentration required.

**SPRAYING:** For mosquito larvae control, applications should be made to moist areas, standing water pools, marshes, swamps, stagnant waters, and intermittently flooded areas. Also spray around and in catch basins and similar areas where mosquitoes breed. Allow at least three weeks between applications. For adult mosquito control, treat shrubbery and vegetation where mosquitoes may rest. Shrubby and vegetation around stagnant pools, marshy areas, swamps and moist areas may be treated, but application of this product to any body of water is prohibited.

For large area mosquito control, applications should be made to wet grassy, bushy, or woody areas. For localized adult mosquito control, applications should be made to surfaces of buildings, screen doors, window frames, and around outdoor light fixtures.

For fly control spray around windows and on other surfaces frequented by flies on or in buildings except where food or feed products are present.

**FOG AND MIST APPLICATIONS:** Outdoor applications for adult mosquito control may be made by thermal fogging, mist spraying, aircraft spraying, or residual spraying. Do not apply to ponds, lakes, streams, or other bodies of water containing fish. Allow at least 3 weeks between mist, or low volume applications. Fog applications may be repeated as necessary.

## RESTRICTIONS

- Do not apply oil mixtures to forage crops or rice.
- Do not apply when weather conditions favor drift of spray.
- Do not use inside homes or in buildings where food is processed or stored.
- Do not apply oil sprays directly to flowers, or other ornamental plants which may be damaged by the oil. Fog applications will not cause plant injury.
- Do not apply directly to animals, except livestock grazing in alfalfa and pasture grass at time of application to these crops.
- Do not use on or allow spray treatment to drift onto water supplies. Do not contaminate feed, drinking water, milk or milk-handling equipment.
- Do not apply as an ultra low volume (ULV) spray (ULV Nonthermal Aerosol applications may be applied as recommended on the label).

## RECOMMENDED APPLICATIONS

INSECT	Fluid Ounces BAYTEX L.C.	REMARKS
<b>GROUND APPLICATIONS:</b>		
Mosquito Larvae	2/3	<b>SPRAY:</b> Apply specified dosage (0.05 lb. active) per acre in sufficient water* or oil** to obtain uniform coverage, or per 1 1/2 gallons of water* or oil** for localized applications. Apply as a light uniform spray. Allow at least 3 weeks between treatments.
Mosquitoes	1/2 to 1	<b>THERMAL FOG:</b> Mix specified dosage per gallon of oil.** This is equivalent to 2/3 to 4/5 gallon of concentrate per 100 gallons of oil. Apply with standard fogging machines calibrated to deliver 40 gallons per hour at a machine speed of 5 m.p.h. to cover a swath width of up to 350 feet. Repeat as necessary.
Mosquitoes	2/3 to 1 1/3	<b>MIST SPRAY:</b> Apply specified dosage (0.05 to 0.1 lb. active) per acre. For mist-blower machines calibrated to deliver 100 gallons per hour traveling at a speed of 4 m.p.h. to cover a swath width of up to 350 feet, use 7 to 14 pints of concentrate per 100 gallons of water*. Allow at least 3 weeks between treatments.
Mosquitoes Houseflies	5/6 to 1 2/3	<b>RESIDUAL SPRAY:</b> For long residual control of mosquitos and for residual fly control, apply specified dosage in 1 gallon of water* for application per 500 square feet or to run-off in localized areas or patios, other outdoor structural surfaces, in buildings including dairy and beef barns and poultry houses. Do not apply directly to animals. Residual control lasts 7 to 8 weeks for the lower rate and even longer at the higher rate. Repeat as necessary. Do not apply as a space spray.
<b>AIRPLANE APPLICATIONS:</b>		
Mosquitoes (Larvae)	2/3 to 1 1/3	<b>LOW VOLUME SPRAY:</b> Apply specified dosage (0.05 to 0.1 lb. active) per acre using the liquid concentrate in one to two quarts of fuel oil per acre. Allow at least 3 weeks between application.
Mosquitoes (Adults)	2/3 to 1 1/3	<b>LOW VOLUME SPRAY:</b> Apply specified dosage (0.05 to 0.1 lb. active) per acre using the liquid concentrate in one to two quarts of fuel oil per acre. Allow at least 3 weeks between application.
Mosquitoes	(See Remarks)	<b>CONVENTIONAL (DILUTED) SPRAY:</b> Use BAYTEX Liquid Concentrate at dosages of 0.05 to 0.1 lb. active ingredient per acre in water* or oil** in conventional aircraft application spray equipment. Mix 4 to 8 pints of concentrate in 100 gallons of water* or fuel oil** and apply 1 gallon of this mixture per acre. Allow at least 3 weeks between treatments.

\*When using water as a carrier add sufficient quantities of suitable emulsifying agents, as described under mixing directions, to BAYTEX Liquid Concentrate prior to mixing with water.

\*\*Kerosene-type oils, fuel oils, diesel oils, and other base oils suitable for insecticide use.

## FISH AND WILDLIFE CAUTION

This product is toxic to fish and wildlife. Birds feeding on treated areas may be killed. Do not apply when weather conditions favor drift from areas treated. Do not apply where runoff is likely to occur. 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. Keep out of lakes, streams or ponds (except where this product is used for Mosquito Larvae Control).

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

## WARNING

May be fatal if swallowed, inhaled, or absorbed through the skin. Rapidly absorbed through the skin. Do not get in eyes, on skin, or on clothing. Do not breathe spray mist. Wash thoroughly with soap and warm water after handling. Wash clothing with soap and hot water before reuse.

Avoid contamination of feed or food. Keep out of reach of children.

**TO PHYSICIAN:**

**ANTIDOTE—** Administer atropine sulfate in large therapeutic doses. Repeat as necessary to the point of tolerance. 2-PAM is also antidotal and may be administered in conjunction with atropine.

## CONTAINER DISPOSAL

Do not reuse container. Destroy it by perforating or crushing. Bury or discard in a safe place.

BAYTEX is a Reg. TM of the Parent Company of Forbenfabriken Boyer GmbH, Leverkusen.

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