

BEST DOCUMENT AVAILABLE

LIQUI-CIDE 20 Concentrated Residual Water or Oil Dilutable Insecticide

Residual Insecticide For Professional Use Only

To be applied only by or under the supervision of Pest Control Operators, Mosquito Abatement Districts, Public Health Organizations and other Trained Personnel responsible for Insect Control Programs.

Controls numerous insect pests in or on Households, Food Processing Plants, Factories, Warehouses, Institutions, Trucks, Railroad Cars, Turf, Ornamental Plants, Mosquito Control and Area Control of Ticks. Provides quick knockdown and flushing of Pyrethrins, along with the residual effects of chlorpyrifos.

ACTIVE INGREDIENTS:

Pyrethrins	3.33%
*Piperonyl Butoxide, Technical	16.64%
Petroleum Distillate	13.32%
Chlorpyrifos O, O-Diethyl O-3, 5, 6-trichloro-2-pyridyl phosphorothioate	31.99%
Aromatic Petroleum Derivative Solvent	27.64%
INERT INGREDIENTS	7.08%
	100.00%

*Equivalent to 13.31% (butylcarbitol 16-propylpiperonyl ether) and to 3.33% related compounds

**KEEP OUT OF REACH OF CHILDREN
WARNING**

See Back Panels For Additional Precautionary Statements.

EPA Reg. No. 125-1-24

EPA Est. No. 1251-IL-1

Manufactured by:

**HADCO CHEMICAL CORP.
WHEELING, ILLINOIS 60090**

DIRECTIONS FOR USE

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

Food Handling Establishments: Places other than private residences in which exposed food is held, processed, prepared or served.

Food Areas—Application Limited to Crack and Crevice Treatment Only: Includes areas for receiving, storage, packing (canning, bottling, wrapping, boxing), preparing, edible waste storage and enclosed processing systems (limits, dairies, etc.) (syrups) and serving areas when food is exposed and facility is in operation.

To control Roaches, Ants, Waterbugs, Silverfish, Spiders and Crickets, apply in small amounts directly into cracks and crevices using equipment capable of delivering a pin stream of insecticide in points between different elements of construction, between equipment and floors, openings leading to voids and narrow spaces in walls, equipment legs and bases, in conduits, motor housings, junction boxes, etc. Prior to application de-energize electrical equipment. After application allow time for oil to evaporate before starting motors or placing switches in "ON" position. Care should be taken to avoid depositing the product onto exposed surfaces of food or introducing the material into the air. Avoid contamination of food and food processing surfaces.

APPLICATION OF THIS PRODUCT IN THE FOOD AREAS OF FOOD HANDLING ESTABLISHMENTS OTHER THAN AS A CRACK AND CREVICE TREATMENT IS NOT PERMITTED.

Serving Areas: Facilities where foods are served such as dining rooms, but excluding areas where foods may be prepared or held, apply as a spot treatment to sealant surfaces, such as baseboards, under elements of construction and into cracks and crevices. Avoid direct contact with food. Do not apply when facility is in operation or foods are exposed.

Non Food Areas: Including garbage rooms, lavatories, floor drains (to sewers), etc. and utility areas, offices, locker rooms, machine rooms, boiler rooms, garages, etc. Apply as a spot treatment to sealant surfaces, such as baseboards, under elements of construction and into cracks and crevices. Avoid direct contact with food. Do not apply when facility is in operation or foods are exposed.

PESTS INDOORS: General Information: Use this product as a spot treatment to control Cockroaches, Ants, Crickets, Firebrats, Silverfish, Spiders, and Brown Dog Ticks in and around residential, institutional, and commercial buildings including homes, apartment buildings, hotels, stores, manufacturing plants and warehouses. Dilute this product with water to make a 0.25% or 0.50% spray. Apply according to the following SPRAY DILUTION CHART. Repeat treatment as needed.

SPRAY DILUTION CHART

Gallons of Spray Mixture Desired	Fluid Ounces* of Concentrate To Make	
	0.25% Spray	0.50% Spray
Water Base Spray		
1	1	2
2	2	4
3	3	6
4	4	8
5	5	10
6	6	12
7	7	14
8	8	16
9	9	18
10	10	20
Oil Base Spray**		
1	3.4	1.7
2	6.8	3.4
3	10.2	5.1
4	13.6	6.8
5	17.0	8.5
6	20.4	10.2
7	23.8	11.9
8	27.2	13.6
9	30.6	15.3
10	34.0	17.0

*1 Gallon = 128 Fluid Ounces. **1 Gallon = 128 Fluid Ounces.

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1251-35

Use this product as a spot treatment to control Cockroaches, Ants, Crickets, Firebrats, Silverfish, Spiders, and Brown Dog Ticks in and around residential, institutional, and commercial buildings including homes, apartment buildings, hotels, stores, manufacturing plants and warehouses. Dilute this product with water to make a 0.25% or 0.50% spray. Apply according to the following SPRAY DILUTION CHART. Repeat treatment as needed.

Fleas and Brown Dog Ticks: Thoroughly apply a 0.50% spray as a spot treatment to treated areas such as pet beds and resting quarters, nearby cracks and crevices, and under and behind baseboards, window and door frames and localized areas of floor and carpeting where these pests may be present. Old bedding of pets should be removed or replaced with clean fresh bedding after treatment. Repeat treatment as necessary. Do not treat pets with this product. Pets should be treated using an approved insecticide to prevent re-infestation.

WARNING (PESTS INDOORS)

Do not allow children or pets to contact treated surfaces until spray has dried. Remove pets and cover fish aquariums before spraying. Do not allow spray to contact food, feedstuffs, and water supplies. Thoroughly wash dishes and food handling utensils and surfaces with soap and water if they become contaminated by application of this product. Do not use this product for spot treatment in poultry houses, other animal buildings, or in other product areas of food processing plants, restaurants, or other areas where food is commercially prepared and processed. Do not use in serving areas where food is exposed.

PESTS OUT OF DOORS: General Information: Use this product for control of certain pests on lawns and ornamental plants for control of ticks and for control of ticks. Consult the following directions for dosage and application details to control the pests listed.

1251-35

Pests of Lawns and Other Ornamental and Recreational Turf Grass Areas: Use this product to control **Ants, Brown Dog Ticks, Chinch Bugs, Crickets, Cutworms, Earwigs, Grasshoppers and Sod Webworms (Lawn Moths)**. Mix this product with water according to directions given in the following table and apply as a coarse, low pressure spray using suitable application equipment. For best results, the lawn should be moist at time of treatment, and care should be taken to obtain complete and uniform coverage of pest infested areas. Spray when pests first appear, retreat when needed.

DOSAGE AND DILUTIONS FOR USE IN TURF

Area to be Treated	Amount of Concentrate	Dilute With Water To Give
500 sq. ft.	2.3 fl. oz.	15 gallons
1,000 sq. ft.	4.6 fl. oz.	30 gallons
5,000 sq. ft.	23 fl. oz.	150 gallons
10,000 sq. ft.	46 fl. oz.	300 gallons
One acre	1 1/2 qts.	1,000 gallons

To Control Certain White Grubs: (Larvae of European Chaffer and Japanese Beetle) Use two to four times the amounts of this product shown in the following table: 2 1/2 to 4 1/2 fl. oz. per 1,000 sq. ft. or 3 to 6 quarts per acre. Apply in enough water to obtain uniform coverage of the area treated followed by thorough watering to wash the insecticide into the turf. For best results treat when grubs are young and actively feeding near the soil surface, usually during late July and August. Consult your local Agricultural Extension Service Specialist for more information.

To Control Turfgrass (Hyperodes) Weevils: Use twice the amount of this product shown in the following table: 5 quarts diluted in 1,000 gallons of water per acre. Spray suspected problem areas in mid April and again in mid May. Consult your local Agricultural Extension Service Specialist for proper method to treat in your area.

Note: To help prevent infestation of buildings by **Ants, Crickets, Earwigs, and Snowbugs**, etc., treat a band of soil 6 to 12 feet wide around and adjacent to the building with this product. Apply at a rate of 2 to 3 fl. oz. per 100 sq. ft. where pests are active and maintain the same dosage and dilution recommended for lawn and garden pests. Turf and soil in the turf should be kept moist by watering thoroughly and uniformly wet the band area.

PESTS OF ORNAMENTALS

Use this product to control **Aphids, Bagworms, Cutworms, Grasshoppers, Leafhoppers, Mealybugs, Mites, Spittlebugs, Thrips, and Whiteflies** of flowers, shrubs, vines, shade and flowering trees and evergreens found to be infested with these pests. Dilute this product with water according to directions given in the following table and apply using suitable hand or power sprayer. Obtain complete and uniform coverage of infested plants. Apply the spray to the undersides of leaves and stems. Repeat applications as needed. Retreatment should be made at 7 to 10 day intervals if needed. Note: Do not use on plants which are sensitive to this product because of possible injury to these plants.

DOSAGE AND DILUTIONS FOR USE ON ORNAMENTAL PLANTS

Pests Controlled	1 gallon	Amount of this product in Water to Make 10 gallons	100 gallons
Aphids			
Bagworms			
Grasshoppers	1.15 fl. oz.	11.5 fl. oz.	115 fl. oz.
Mites			
Spittlebugs			
Whiteflies			
Cutworms			
Mealybugs	2.3 fl. oz.	23 fl. oz.	230 fl. oz.
Leafhoppers			
Thrips exposed			

• For a rate of 4 quarts of chlorpyrifos per 1,000 sq. ft. or equivalent amount of other products per 1,000 sq. ft.

Note: Mosquitoes coming to rest on areas treated for control of turf and ornamental plant pests will be killed for varying periods of time after treatment, depending on exposure of treated areas to weathering conditions.

WARNING (LAWN AND ORNAMENTAL PLANT PESTS):

Keep children and pets off treated areas until spray has dried. Keep out of lawn and garden fishpools and other bodies of water. Fish may be killed if the waters are contaminated with this product. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated.

Area Control of Ticks: Use this product to control ticks infesting non-crop land areas such as roadsides, footpaths, and trails, picnic and camping sites, parks and other recreational areas where these pests are present and create a nuisance or possible health hazard. Apply this product in water at the rate of 24 fl. oz. per acre equivalent to 1 1/2 fl. oz. per 2,700 sq. ft. using a hydraulic sprayer, mist applicator, backpack sprayer or other suitable hand or power spray equipment. Treat low underbrush, grassy areas, weeds, ground surface and debris using enough spray volume to obtain thorough coverage usually 40 to 100 gallons per acre.

WARNING (AREA CONTROL OF TICKS):

Do not allow public use of treated areas during application or until spray has dried. Do not apply when weather conditions favor drift from treated areas. Do not apply where runoff into lakes, streams, ponds, or other bodies of water is likely to occur. Fish and crustacea (shrimps, crabs, etc.) and other aquatic life are extremely sensitive to this product.

MOSQUITOES

Apply this product to mosquito infested areas according to the directions and rates shown in the following table. Mix this product with other water which has been used. No other water should be added to the spray mixture. Use enough volume of water to obtain complete and uniform coverage of treated areas. Apply the spray using suitable application equipment such as hand and power sprayers, backpack sprayers, etc. Do not use on areas where drift is likely to occur.

CONDITIONS AND RATES TO USE FOR MOSQUITO CONTROL

Condition of Area to Be Treated	Concentrate Product (1 oz.)	Chlorpyrifos (pounds)	Number of Acres which 1 Gallon of Concentrate Will Treat
Larvae Control (in water)	1.15 fl. oz.	0.0115 lb.	10 to 15
Adult Control (on land)	2.3 fl. oz.	0.023 lb.	5 to 10
Medium heavy infestation (vegetation cover 25%)	4.6 fl. oz.	0.046 lb.	5 to 10
Adult Control (on land)	9.2 fl. oz.	0.092 lb.	5 to 10

WARNING MOSQUITO CONTROL

Do not allow public use of treated areas during application or until spray has dried. Do not apply when weather conditions favor drift from treated areas. Do not apply where runoff into lakes, streams, ponds, or other bodies of water is likely to occur. Fish and crustacea (shrimps, crabs, etc.) and other aquatic life are extremely sensitive to this product.

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS & DOMESTIC ANIMALS
WARNING**

May be fatal if swallowed. May be absorbed through skin. May be injurious to eyes and skin. Do not get in eyes, on skin, or on clothing. Wash thoroughly with soap and water after handling, and before eating or smoking. Avoid breathing vapors and spray mist. Do not spray food crops. Keep away from food, feedstuffs and domestic water supplies.

STATEMENT OF PRACTICAL TREATMENT

If swallowed: Do not induce vomiting. Contains aromatic petroleum solvent. Call a physician immediately.

If On Skin: In case of contact remove contaminated clothing and immediately flush skin with soap and water. Wash contaminated clothing before reuse.

If In Eyes: Flush eyes with plenty of water for 15 minutes. Call a physician.

NOTE TO PHYSICIAN:

Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. Atropine only by injection is an antidote.

ENVIRONMENTAL HAZARDS

This product is toxic to fish, birds and other wildlife. Do not apply directly to lakes, streams and ponds. This product is toxic to shrimp and crabs. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of wastes.

Apply this product only as specified on this label.

This product is highly toxic to bees exposed to direct treatment or residues on plants.

Protective information can be obtained from your Cooperative Agricultural Extension Service.

CHEMICAL HAZARDS

Do not use or store near heat or open flame. Buyer assumes all risks of use, storage or handling of this product not in strict accordance with directions given here with.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

Pesticide Disposal: Pesticide spray mixture or rinse water that cannot be used according to label directions must be disposed of according to applicable Federal, state or local procedures.

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

BEST AVAILABLE COPY

LOT #
NET CONTENTS GALLONS

JAN 7 1983

Yellow

Mr. Walter R. Albers
Medco Chemical Corp.
415 - Harvester Court
Wheeling, IL 60090

Dear Mr. Albers:

Subject: 1251-35 Aquaduoil
1251-34 ARS Residual Oil
Your letter Dated November 30, 1982

This is in response to your letter of November 30, 1982, requesting the following changes:

- a. THAT THE PRODUCT 1251-35 AQUADUOIL'S NAME BE CHANGED TO READ LIQUI-CIDE 20 CONCENTRATE RESIDUAL WATER OR OIL DILUTABLE INSECTICIDE.
- b. THAT THE PRODUCT 1251-34 ARS RESIDUAL OIL'S NAME BE CHANGED TO READ LIQUI-CIDE 010 READY-TO-USE RESIDUAL OIL-BASED INSECTICIDE.

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. A stamped copy is enclosed for your records.

Sincerely yours,

Jay S. Ellenberger
Product Manager (12)
Insecticide-Rodenticide Branch
Registration Division (25-767)

Enclosure

RD:Jay S. Ellenberger;DCR-28992;WANG-1815C;aca:Raven:479-2013:12/29/82

BEST DOCUMENT AVAILABLE

LIQUID-CIDE

#20

Concentrated
Residual Water or Oil
Dilutable Insecticide

Residual Insecticide

For Professional Use Only

To be applied only by or under the supervision of Pest Control Operators, Mosquito Abatement Districts, Public Health Organizations and other Trained Personnel responsible for Insect Control Programs.

Controls numerous insect pests in or on Households, Food Processing Plants, Factories, Warehouses, Institutions, Trucks, Railroad Cars, Turf, Ornamental Plants, Mosquito Control and Area Control of Ticks. Provides quick knockdown and flushing of Pyrethrins along with the residual effects of chlorpyrifos.

ACTIVE INGREDIENTS:

Pyrethrins	3.33%
*Piperonyl Butoxide, Technical	16.64%
Petroleum Distillate	13.32%
Chlorpyrifos 0, 0-Diethyl 0-(3, 5, 6-trichloro-2-pyridyl) phosphorothioate	31.99%
Aromatic Petroleum Derivative Solvent	27.64%
INERT INGREDIENTS	7.08%
	100.00%

*Equivalent to 13.31% (butylcarbityl) (6-propylpiperonyl) ether and to 3.33% related compounds.

KEEP OUT OF REACH OF CHILDREN
WARNING

See Back Panels For Additional Precautionary Statements.

EPA Reg. No. 1251-34

EPA Est. No. 1251-IL-1

Manufactured by:

BEST DOCUMENT AVAILABLE

HADCO CHEMICAL CORP.
WHEELING, ILLINOIS 60090

DIRECTIONS FOR USE

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

Food Handling Establishments: Places other than private residences in which exposed food is held, processed, prepared or served.

Food Areas—Application Limited to Crack and Crevice Treatment Only: Includes areas for receiving, storage, packing, canning, bottling, wrapping, boxing, preparing, edible waste storage and enclosed processing systems (mills, dairies, etc.) and other areas where food is exposed and facility is in operation.

To control **Roaches, Ants, Waterbugs, Silverfish, Spiders and Crickets**, apply in small amounts directly into cracks and crevices using equipment capable of delivering a pin stream of insecticide in points between different elements of construction, between equipment and floors, openings leading to voids and narrow spaces in walls, equipment, eggs and bases in conduits, motor housings, junction or switch boxes. Prior to application deenergize electrical equipment. After application allow 15 minutes for the insecticide to evaporate before starting motors or placing switches in "On" position. Care should be taken to avoid depositing the product on exposed surfaces or introducing the material into the air. Avoid contamination of food and food processing surfaces.

APPLICATION OF THIS PRODUCT IN THE FOOD AREAS OF FOOD HANDLING ESTABLISHMENTS OTHER THAN AS A CRACK AND CREVICE TREATMENT IS NOT PERMITTED.

Serving Areas: Facilities where foods are served such as dining rooms, but excluding areas where foods may be prepared or held, apply as a spot treatment to seepage surfaces, such as baseboards, under elements of construction and into cracks and crevices. Avoid treating surfaces likely to be contacted by food. Do not apply when facility is in operation or foods are exposed.

Non-Food Areas: Including garbage rooms, lavatories, floor drains (to sewers), linen closets, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage (after canning or bottling). Apply to baseboard areas around water pipes, surfaces behind and beneath sinks, lockers, tables, pallets and similar areas where insects hide or through which they may enter. Repeat treatment as required.

PESTS Indoors: General Information:

Use this product as a spot treatment to control **Cockroaches, Ants, Crickets, Firebrats, Silverfish, Spiders, and Brown Dog Ticks** in and around residential, industrial, institutional and commercial buildings including homes, apartment buildings, hospitals, stores, manufacturing plants and warehouses. Dilute this product with water or with a suitable base oil to make a 0.25% or 0.5% chlorpyrifos spray as shown in the following **SPRAY DILUTION CHART**. Apply according to directions given for pest listed. Repeat treatment as needed.

SPRAY DILUTION CHART:

Gallons of Spray Mixture Desired	Fluid Ounces* of Concentrate To Make	
	0.25% Spray	0.50% Spray
Water-Base Spray		
1	1	2
3	3	6
5	5	10
10	10	20
Oil-Base Spray**		
1	3/4	1 1/2
3	2 1/4	4 1/2
5	3 3/4	7 1/2
10	7 1/4	14 1/2

*Note: 1 fluid ounce = 2 tablespoonfuls or 6 teaspoonfuls

**Calculated on basis of deodorized kerosene

Cockroaches (including strains resistant to certain other insecticides), **Ants, Crickets, Firebrats, Silverfish, Spiders:** Use a 0.25% spray to control light infestation and a 0.5% spray to quickly reduce heavy infestations. For spot treatment, apply as a coarse spray or with a paint brush to localized areas where these pests are found or normally occur, including dark corners of rooms and closets, cracks and crevices in walls, along and behind baseboards, beneath and behind sinks, stoves, refrigerators, and cabinets; around plumbing and other utility installations. For ants, apply to ant trails, also around doors and windows and wherever else these pests may find entrance.

Fleas and Brown Dog Ticks: Thoroughly apply a 0.5% spray as a spot treatment to infested areas such as pet bed and resting quarters; nearby cracks and crevices; along and behind baseboards, window and door frames and localized areas of floor and floor covering where these pests may be present. Old bedding of pets should be removed and replaced with clean, fresh bedding after treatment. Repeat treatment as necessary. Do not treat pets with this product. Pets should be treated using an approved insecticide to prevent reinfestation.

WARNING (PESTS Indoors):

Do not allow children or pets to contact treated surfaces until spray has dried. Remove pets and cover fish aquaria before spraying. Do not allow spray to contact food, foodstuffs, and water supplies. Thoroughly wash dishes and food handling utensils and surfaces with soap and water if they become contaminated by application of this product. Do not use this product for spot treatment in poultry houses, other animal buildings or in edible product areas of food processing plants, restaurants or other areas where food is commercially prepared and processed. Do not use in serving areas where food is exposed.

PESTS, OUT-OF-DOORS: General Information:

Use this product for control of certain pests of lawns and ornamental plants, for area control of ticks and for mosquito control. Consult the following directions for dosage and application data to control the pests listed.

Pests of Lawns and Other Ornamental and Recreational Turf Grass Areas: Use this product to control Ants, Brown Dog Ticks, Chinch Bugs, Crickets, Cutworms, Earwigs, Grasshoppers and Sod Webworms (Lawn Moths). Mix this product with water according to directions given in the following table and apply as a coarse, low pressure spray using suitable application equipment. For best results, the lawn should be moist at time of treatment, and care should be taken to obtain complete and uniform coverage of pest infested areas. Spray when pests first appear, retreat when needed.

DOSAGE AND DILUTIONS FOR USE IN TURF

Area to be Treated	Amount of Concentrate	Dilute With Water To Give
500 sq. ft.	2-3 fl. oz.	15 gallons
1,000 sq. ft.	1-1/2 fl. oz.	30 gallons
5,000 sq. ft.	5-1/2 fl. oz.	150 gallons
10,000 sq. ft.	11-1/2 fl. oz.	325 gallons
One acre	1-1/2 qts.	1,000 gallons

To Control Certain White Grubs: (Larvae of European Chafer and Japanese Beetle) use two to four times the amount of this product shown in the turf table, i.e., 2 1/2 to 4 1/2 fl. oz. per 1,000 sq. ft. or 3 to 6 quarts per acre. Apply in enough water to obtain uniform coverage of the area treated followed by thorough watering to wash the insecticide into the turf. For best results treat when grubs are young and actively feeding near the soil surface, usually during late July and August. Consult your local Agricultural Extension Service Specialist for further information on treatment in your area.

To Control Turfgrass (Hyperodes) Weevils: Use twice the amount of this product shown in the turf table, i.e., 3 quarts diluted in 1,000 gallons of water per acre. Spray suspected problem areas in mid-April and again in mid-May. Consult your local Agricultural Extension Service Specialist for proper time to treat in your area.

Note: To help prevent infestation of buildings by Ants, Crickets, Earwigs, and Snowbugs (Pillbugs): treat a band of soil 6 to 10 feet wide around and adjacent to the building, also the building foundation to a height of 2 to 3 feet where pests are active and may find entrance. Use the same dosage and dilution recommended for control of these pests on turf as shown in the turf table. Apply as a coarse spray to thoroughly and uniformly wet the band area.

PESTS OF ORNAMENTALS:

Use this product to control Aphids, Bagworms, Cutworms, Grasshoppers, Leafhoppers, Mealybugs, Mites, Spittlebugs, Thrips (exposed) and Whiteflies of flowers, shrubs, vines, shade and flowering trees and evergreens found to be infested with these pests. Dilute this product with water according to directions given in the following table and apply using suitable hand or power spray equipment in a manner to obtain complete and uniform coverage of infested plants. Avoid overspraying to a point of excessive runoff. Treat when pests appear and repeat at 7 to 10 day intervals, if needed. **NOTE:** Do not use on azaleas, camellias, poinsettias, rose bushes or variegated ivy because of possible injury to these plants.

DOSAGE AND DILUTIONS FOR USE ON ORNAMENTAL PLANTS

Pests Controlled	3 gallons	Amount of this product in Water to Make	
		10 gallons	100 gallons
Aphids	1/2 fl. oz.	1 1/4 fl. oz.	12 1/2 fl. oz.*
Bagworms			
Grasshoppers			
Mites			
Spittlebugs			
Whiteflies			
Cutworms	2-3 fl. oz.	2-1 1/2 fl. oz.	23 fl. oz.**
Mealybugs			
Leafhoppers			
Thrips (exposed)			

*Equivalent to 4 ounces of chlorpyrifos per 100 gallons

**Equivalent to 6 ounces of chlorpyrifos per 100 gallons

Note: Mosquitoes coming to rest on areas treated for control of turf and ornamental plant pests will be killed for varying periods of time after treatment, depending on exposure of treated areas to weathering conditions.

WARNING (LAWN AND ORNAMENTAL PLANT PESTS):

Keep children and pets off treated areas until spray has dried. Keep out of lawn and garden fishpools and other bodies of water. Fish may be killed if their waters are contaminated with this product. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated.

Area Control of Ticks: Use this product to control ticks infesting non-crop land areas such as roadsides, footpaths, and trails, picnic and camping sites, parks and other recreational areas where these pests are present and create a nuisance or possible health hazard. Apply this product in water at the rate of 24 fl. oz. per acre (equivalent to 1 1/2 fl. oz. per 2,700 sq. ft.) using a hydraulic sprayer, mist applicator, knapsack sprayer or other suitable hand or power spray equipment. Treat low underbrush, grassy areas, weeds, ground surface and debris using enough spray volume to obtain thorough coverage, usually 40 to 100 gallons per acre.

WARNING (AREA CONTROL OF TICKS):

Do not allow public use of treated areas during application or until spray has dried. Do not apply when weather conditions favor drift from treated areas. Do not apply where runoff into lakes, streams, ponds, or other bodies of water is likely to occur. Fish and crustaceans may be killed if their waters are contaminated with this product.

MOSQUITOES:

Apply this product to mosquito infested non-crop areas according to the conditions and rates shown in the following table. Mix this product with either water or oil, such as Kerosene or No. 2 Fuel Oil, using sufficient spray volume to give uniform coverage of area treated. Apply the spray using suitable application equipment such as hand and power ground sprayers, mist applicators and aerial spray equipment.

CONDITIONS AND RATES TO USE FOR MOSQUITO CONTROL

Condition of Area To Be Treated	Amount to Use Per Acre		Number of Acres which 1 Gallon of Concentrate Will Treat
	Concentrate Product (fl. oz.)	Chlorpyrifos (pounds)	
Larvae Control None to medium vegetative cover	2-3 to 1-1/2	0.0125 to 0.0250	160 to 80
Medium to heavy 1-1/2 to 2-2/3		0.025 to 0.050*	80 to 40
Adult Control Light to medium vegetative cover	1-1/2	0.025	80
Medium to heavy 2-2/3		0.050*	40

*The higher dosage will also give the faster knockdown and longer residual control where there is little or no vegetative cover.

WARNING (MOSQUITO CONTROL):

This product is toxic to shrimp, crabs, and fish. Do not apply to water containing crustaceans and fish. Consult your State Fish and Game Department before using this product for mosquito control.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS WARNING

May be fatal if swallowed. May be absorbed through skin. May be injurious to eyes and skin. Do not get in eyes, on skin, or on clothing. Wash thoroughly with soap and water after handling, and before eating or smoking. Avoid breathing vapors and spray mist. Do not spray food crops. Keep away from food, feedstuffs and domestic water supplies.

STATEMENT OF PRACTICAL TREATMENT

If swallowed: Do not induce vomiting. Contains aromatic petroleum solvent. Call a physician immediately.

If On Skin: In case of contact, remove contaminated clothing and immediately flush skin with soap and water. Wash contaminated clothing before reuse.

If In Eyes: Flush eyes with plenty of water for 15 minutes. Call a physician.

NOTE TO PHYSICIAN:

Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. Atropine only by injection is an antidote.

ENVIRONMENTAL HAZARDS

This product is toxic to fish, birds and other wildlife. Do not apply directly to lakes, streams and ponds. This product is toxic to shrimp and crabs. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of wastes.

Apply this product only as specified on this label.

This product is highly toxic to bees exposed to direct treatment or residues on plants.

Protective information can be obtained from your Cooperative Agricultural Extension Service.

CHEMICAL HAZARDS

Do not use or store near heat or open flame. Buyer assumes all risks of use, storage or handling of this product not in strict accordance with directions given herewith.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

Pesticide Disposal: Pesticide, spray mixture or rinse water that cannot be used according to label directions must be disposed of according to applicable Federal, state or local procedures.

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

BEST DOCUMENT AVAILABLE

LOT #
NET CONTENTS GALLONS