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((LABEL))

AGRICULTURAL

CHIPMAN

DIAZINON 500 EC

Emulsifiable Concentrate

INSECTICIDE

For Control of Insects  
on Turf, Fruits,  
Vegetables, Ornamentals  
and other Insects Pests

KEEP OUT OF REACH OF CHILDREN

READ THE LABEL AND BOOKLET BEFORE USING

DANGER

POISON

10 LITRES

GUARANTEE: diazinon 500 g per litre

REGISTRATION NO. 11934 PEST CONTROL PRODUCTS ACT

CHIPMAN

A Business Unit of C-I-L Inc.

Stoney Creek, Ontario

L8G 3Z1

PRECAUTIONS: May be fatal if swallowed. Do not get into eyes. Avoid inhalation of spray mist by wearing a respirator suitable for protection against pesticide vapours. Avoid contact with skin. Wash exposed skin thoroughly with soap and water before eating, drinking or smoking and when spray is completed for the day. Contaminated clothing should be removed daily and washed separately from normal wash before reusing. Avoid contamination of food and feed. Use only as recommended on the label. Do not

re-use container; destroy when empty. This product is toxic to fish and wildlife. Do not contaminate domestic or irrigation water supplies, lakes, streams and ponds. Flammable Mixture - Do not use or store near heat or open flame. Do not apply within 15 meters of productive fishery waters or waterfowl habitats.

FIRST AID INSTRUCTIONS: If swallowed, induce vomiting and call a doctor or hospital and have this container or label with you. NEVER give anything by mouth to an unconscious person. If in eyes, flush with water for 15 minutes; then get medical attention. If on skin, wash with plenty of soap and water.

TOXICOLOGICAL INFORMATION: Stomach Lavage. Diazinon is a cholinesterase inhibitor. Antidote - atropine sulphate at 1-2 milligrams every 15 minutes may be necessary.

NOTICE TO USER: This control product is to be used only in accordance with the directions on this label. It is an offence under the Pest Control Products Act to use a control product under unsafe conditions.

NOTICE TO BUYER: Seller's guarantee shall be limited to the terms set out on the label and subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

((BOOKLET))

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INSECT CONTROL ON LAWNS

For control insect pests on lawns, around buildings and in other outdoor areas, follow the directions given in the table below. Applications to infested areas should be thorough and should be repeated as necessary to maintain control.

PESTS	CONCENTRATION OF DIAZINON 500EC TO USE	REMARKS
Ants, Sod Webworms (lawn moths), Sowbugs, Pillbugs, Collembola (springtails)	15 mL per 10 L water	Apply 50 to 100 L of spray, mixture per 100 m <sup>2</sup>
Chinchbugs	10 to 15 mL per 10 L water	Thoroughly wet the law before treatment. Apply 125 L per 100 m <sup>2</sup> . Repeat in 7-10 days if necessary. Apply anytime from June until September but best control is obtained in July.
Clover Mites, Leafhoppers, Grasshoppers, Crickets	15 mL per 10 L water	Thoroughly apply to areas around buildings. Repeat every 7 days or as needed for control.
Earwigs	100 mL per 10 L water	Apply only in areas of infestation.
Fleas, Ticks, Chiggers	100 mL per 10 L water	Apply 5 L per 100 m <sup>2</sup> .
Millipedes	125 mL per 10 L water	Apply 15 to 20 L per 100 m <sup>2</sup> .

Leatherjackets (crane flies)	30 mL per 10 L water	Apply 50 L of spraymixture/100 m <sup>2</sup> to short grass from October until March. Repeat at 7-10 days if necessary.
White Grubs (such as European chafter and Japanese beetle larvae)	15 mL in 10 L water	Apply 100 L of spraymixture/m <sup>2</sup> . Water grass thoroughly after application. Apply any time between late July and early September.

Clover Mites Infesting Lawns and Shrubbery. To control clover mites and prevent their migration to an adjoining dwelling, use 1 L of DIAZINON 500EC per 1000 L of water and thoroughly spray the infested lawn and shrubbery within an area extending 3 m from the building when the mites first appear. Repeat as necessary. Spraying of the lower portion of the house walls and around window frames may be desirable if migration has taken place. Do not use inside dwellings.

#### INSECTS ON ORNAMENTALS

Apply DIAZINON 500EC thoroughly at rates given below when insects first appear. Repeat as necessary.

ORNAMENTAL	PESTS	QUANTITY OF DIAZINON 500 EC PER 1000 L OF SPRAY
White cedar	Leafminers, Bagworms, Scale Insects (crawlers)	1 L 1.5 L
Azalea	Leafminers	1 L
Birch	Leafminers	1 L
Boxwood	Leafminers	1 L
Carnations	Aphids, Thrips, Caterpillars, Leafminers	1.5 L

Chrysanthemums	Aphids, Thrips, Caterpillars, Leafminers	1 L
Holly	Leafminers Pulvinaria, Coccus Scales Aphids, Bud Moths - Note: apply when new growth is about 0.5 cm long and before blossoms open.	1 L 3.75L 2 L
Juniper	Bagworms, Scale Insects (crawlers), European Pine Shoot Moth.	1.5 L
Oak	Leafminers	1 L
Pines	Scale Insects (crawlers), European Pine Shoot Moth	1.5 L
Taxus	Scale Insects (crawlers), European Shoot Moth.	1.5 L

BALSAM FIR TREES IN CHRISTMAS TREE PLANTATIONS: Wear protective clothing such as gloves, head cover, coveralls and rubber boots. Ground Application: To control Balsam Gall Midge and Balsam Twig Aphid, mix 1.7 L of Diazinon 500 EC in 50 L of water per hectare and apply with a backpack mist blower to the trees. Before spraying, mark out a one-half hectare area and spray the trees in the area using water only to determine the coverage to be given each tree using 50 L of spray mixture in the one-half hectare area.

DIAZINON 500EC

FRUIT INSECTS

For Control of insects and mites on fruit, apply in accordance with the directions on the following tables. Unless otherwise specified use in sufficient water for thorough coverage.

PEST	QUANTITY OF DIAZINON 500EC PER HECTARE	TIME AND NUMBER OF APPLICATIONS
APPLES - Do not apply within 14 days of harvest.		

San Jose Scale, Eggs of Apple Aphids, Eggs of European Red Mite and Brown Mite.	1.75 L/ha and add 20 L dormant emulsive oil per 1000 L of water	Dormant application with full coverage.
Fruit Tree Leafroller	3.4 L/ha	Apply with full coverage in 3-8 cover sprays beginning in pink spray.
APPLES AND PEARS - Do not apply within 14 days of harvest		
Pear Psylla	3.4 L/ha	Use in pre-pink, first, second and third cover sprays.
Eye-Spotted Bud Moth	3.4 L/ha	Apply at pink stage, also a special spray at full hatch (late July, early August).
Tentiform Leafminer	3.4 L/ha	Apply with full coverage in calyx and first cover spray. Include in later cover sprays if 2nd and 3rd generations develop.
Coding Moth	3.4 L/ha	Apply in all cover (summer) sprays and in special sprays against 2nd brood.

Apple Maggot	3.4 L/ha	Include at least 3 cover sprays 10 days apart when flies are active and laying eggs.
Aphids (rose-apple-woolly)	1.75 to 3.4 L/ha	Apply in a thorough cover spray, repeat as necessary.
Mealybugs, Scales (Crawlers), Stink Bugs, Pear Leafminer	3.4 L/ha	Time applications according to insect incidence.
NOTE: Slight russeting may occur on some varieties of apples much as Golden Delicious.		
PEARS - Do not apply within 14 days of harvest.		
San Jose Scale,	3.4 L/ha and add 20 L dormant emulsive oil per 1000 L of water	Apply as a dormant application full coverage.
CHERRIES - Do not apply within 10 days of harvest.		
San Jose Scale (crawlers)	3.4 L/ha	Apply at pre-pink stage or when crawlers first appear
Fruit Tree Leafroller, Eye-Spotted Bud Moth	3.4 L/ha	Apply with full coverage beginning with petal fall.
Cherry Fruit Flies	3.4 L/ha	Apply when flies begin to emerge; repeat 2 or 3 times at 10 day intervals.

Black Cherry Aphids	3.4 /ha	Spray on first appearance, repeat after 10 days.
PEACHES AND APRICOTS - Do not apply to peaches within 20 days and to apricots within 10 days of harvest.		
San Jose Scale	3.4 L/ha and add 20 L emulsive oil per 1000 L of water	Dormant spray with thorough coverage.
Aphids, San Jose Scale (crawlers)	3.4 L/ha	Apply in a thorough cover spray when pests are first noted; repeat as necessary.
PLUMS AND PRUNES - Do not apply within 10 days of harvest.		
Bud Moth	3.4 L/ha	Apply at pink stage.
Aphids (Mealy Plum, Leaf Curl Plum, Thistle)	3.4 L/ha.	Apply in a thorough cover spray, repeat as necessary
Apple Maggot	3.4 L/ha	Where a problem on prunes, apply 2 or 3 sprays at 10 day intervals during July and early August.
CRANBERRIES - Do not apply within 7 days of harvest.		
Black-headed Fire Worm, Sparganothis sulfureana	4 L in 3200 to 3500 L water per hectare	Apply when insects first appear repeat when necessary



Cranberry Fruit Worm	7 L in 3200 to 3500 L water per hectare	Apply when insects first appear repeat as necessary.
CURRANTS AND GOOSEBERRIES - Do not apply after bloom.		
Aphids, Lecanium Scale (crawlers), Sawfly	1 L per 1000 L of water	Apply immediately before first blooms open.
GRAPES - Do not apply within 16 days of harvest.		
Leafhoppers, Grape Berry Moth, Grape Leaf Folder, Mealy bugs	2.75 to 3.5 L/ha	Apply when insects first appear repeat as necessary.
LOGANBERRIES, RASPBERRIES AND BLACKBERRIES - Do not apply to these fruits after bloom		
Raspberry crown Borer	1 L per 1000 L of water	Apply as a drench to the crown area using 0.5 L of the mixture per plant (about 4000 L/ha). Apply when new cane growth is about 10 cm above the ground.
Leafhoppers (including Macropsis), Aphids, Fruitworm, Thrips and Raspberry Sawfly.	1 L per 1000 L of water	Apply when blossoms buds separate.
STRAWBERRIES - Do not apply within 5 days of harvest.		

#### INSECTS ON HOPS

Aphids - Apply 2.25 L/ha DIAZINON 500EC in sufficient water to achieve thorough coverage when insects first appear, repeat as necessary. Do not apply to hops within 14 days of harvest.

#### VEGETABLE INSECT PESTS

For control of the insects listed below, apply the specified amount of DIAZINON 500 EC with a sprayer in sufficient water to achieve thorough coverage of the attacked crop. Apply when the insects first appear and repeat as infestation warrants. Do not apply DIAZINON 500 EC closer to harvest than the time interval shown in the table.

CROP	INTERVAL TO HARVEST IN DAYS	PESTS	QUANTITY OF DIAZINON 500 EC PER HECTARE
Beans	7	Aphids, Mexican Bean Beetles	1.1 L
Beets	14	Aphids, Dipterous Leafminers	1.1 L
Broccoli	5	Aphids, Diamondback Moths, Cabbage Worms	1.1 L
Cabbage	7	Aphids, Diamondback Moths, Cabbage Worms	1.1 L
Cantalopes	10	Aphids, Cucumber Beetles, Thrips, Leafhoppers	1.1 to 2 L
Carrots	10	Aphids  Carrot Rust Fly (Adults). Apply when insects first appear and repeat at 7-10 day intervals as infestation warrants. Consult local agricultural authorities for correct timing of spray applications.	1.1 L  1.1 L
Cauli-flower	5	Aphids, Diamondback Moths, Cabbage	1.1 L
Collards	7	Aphids, Diamondback Moths, Cabbage Worms.	1.1 L
Cucumbers	7	Cucumber Beetles, Aphids, Thrips	2.25 L
Kale and Kohlrabi	7	Aphids, Diamondback Moths, Cabbage Worms.	1.1 L
Lettuce	10	Aphids, Dipterous Leafminers	1.1 L

Lima Beans	3	Black Bean Aphids, Mexican Bean Beetles, Dipterous Leafminers, Leafhoppers.	1.1 L
<p>Mushrooms - Mushroom Flies (Phorids and Sciarids): Use 10 to 20 L of DIAZINON 500 EC to 1000 L of water (0.5% to 1% actual) and spray on the outside and inside walls and ventilators of mushroom houses after the compost in the beds has been pasteurized by heating.</p> <p>*Do not spray on the compost in the beds, or after spawning. To treat the wooden sides of the beds, posts, doors and door frames after pasteurizing, add 10 mL DIAZINON 500EC to 1 L water and apply with a brush. Repeat these applications when necessary.</p>			
Muskmelons	10	Aphids, Cucumber Beetles, Thrips, Leafhoppers	1.1 to 2 L
Onions	10	Onion Thrips	1.1 L
		Onion Maggot Flies. Apply when flies become numerous and repeat at 7 to 10 days intervals as infestation warrants.	1.1 L
Parsley	14	Aphids, Cabbage Worms, Diamondback Moths.	1.1 L
Parsnips	10	Aphids, Flea Beetles, Dipterous Leafminer	1.1 L
		Carrot Rust Fly (Adults). Apply when insects first appear and repeat at 7-10 day intervals as infestation warrants. Consult local agricultural authorities for correct timing of spray applications.	1.1 L
Peppers	5	Aphids	550 mL to 1.1 L
Potatoes	14	Aphids, Flea Beetles, Colorado Potato Beetles, Leafhoppers, Dipterous Leafminers	1.1 L

Radishes and Salsify	10	Aphids, Flea Beetles, Dipterous Leafminers	1.1 L
Spinach	10	Aphids, Dipterous Leafminers	1.1 L
Squash	3	Aphids, Cucumber Beetles, Thrips, Leafhoppers.	1.1 to 2 L
Swiss Chard	14	Aphids, Diamondback Moth Larva, Imported Cabbage Worm.	1.1 L
Tomatoes	1	Aphids, Dipterous Leafminers, Vinegar Flies ( <i>Drosophila</i> spp.) For Leafminers and Vinegar Flies applications at weekly intervals will generally be required.	1.1 to 2 L
Turnips	14	Aphids, Flea Beetles, Dipterous Leafminers	1.1 L
Watermelon	10	Aphids, Cucumber Beetles, Thrips, Leafhoppers	1.1 to 1.75 L
RANGELAND, PASTURE			
Grasshoppers: Apply to obtain thorough coverage when grasshoppers first appear. Beef cattle, dairy cattle and sheep may be grazed or fed green foilage immediately after application. Do not cut hay for 21 days after application when used for feed. Do not spray livestock directly. Do not apply during bloom to avoid injuring pollinating insects. Do not repeat for 30 days.			1.1 l/ha

#### FLY CONTROL IN DAIRY BARNs AND OTHER FARM BUILDINGS

Residual Sprays. Apply a spray of 1 L of DIAZINON 500EC in 100 L of water as an overall application to the ceilings and walls of dairy barns, livestock sheds, calf barns, hog barns and other farm buildings, except poultry houses. Thoroughly spray garbage dumps, corrals and other places where flies congregate. Repeat applications as fly populations warrant. Residual control of up to 8 weeks can be obtained by doubling the concentration (2 L of DIAZINON 500EC per 100 L spray). Applied to the point of "run-off", 7 L of this spray should cover from 50 to 100 m<sup>2</sup> of area, depending on the surface to be treated.

NOTE: Remove animals from buildings before spraying and keep them out for at least 4 hours. Do not spray animals or contaminate their feed and drinking water. Do not use in poultry houses except for control of fly maggots in manure piles. Do not use in dwellings or milkhouses.

Although control of both adult flies and maggots may be obtained, it is not desirable to use the same chemical for both purposes since this may increase the development rate of insect resistance.

Sugar Bait Sprays for knapsack application around doorways, windows and other places where flies congregate use 300 mL DIAZINON 500EC plus 500 g of sugar in 10 L water. Repeat applications as fly populations warrant.

Liquid Sugar Bait for Sprinkling can Application. Use 25 mL DIAZINON 500EC and 250 g of sugar (or 250 mL of syrup or molasses) in 10 L of water and sprinkle lightly over the floor in areas frequented by flies. Burlap bags may be laid out on floors and sprinkled with this mixture. Applications every day or two will generally be required.

Fly Maggot Control in poultry houses: 125 mL DIAZINON 500EC in 50 L spray per 100 m<sup>2</sup> of floor space. Sprinkle or use a coarse spray. Repeat if fresh manure deposited. Apply to poultry droppings only if poultry are kept on wire and cannot come in contact with the chemical.

N.B. Good sanitation and proper disposal of wastes are necessary in any fly control program.

#### GRASSHOPPERS

For control of grasshoppers on ditch banks, roadsides, fence rows, wastelands, non-cropped areas, barrier strips, dry sloughs and abandoned farmstead, apply 1.1 L DIAZINON 500EC per hectare in sufficient water to obtain thorough coverage when insects first appear. Repeat as infestation warrants.

NOTE: Do not graze livestock on treated areas.

#### DIAZINON 500EC

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waterfowl habitats.

FIRST AID: If swallowed, induce vomiting and call a doctor or hospital and have this container or label with you. NEVER give anything by mouth to an unconscious person. If in eyes, flush with water for 15 minutes; then get medical attention. If on skin, wash with plenty of soap and water.

TOXICOLOGICAL INFORMATION: Stomach Lavage. Diazinon is a cholinesterase inhibitor. Antidote - atropine sulphate at 1-2 milligrams every 15 minutes may be necessary.

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