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GUARDSMAN(R)
DIAZINON 500 E.C.
EMULSIFIABLE CONCENTRATE INSECTICIDE
AGRICULTURAL

DANGER

POISON

READ LABEL BEFORE USING

GUARANTEE: DIAZINON.....500 grams/litre

REGISTRATION NO. 12224
PEST CONTROL PRODUCTS ACT

DISTRIBUTED BY

VAN WATERS & ROGERS LTD.
P.O. Box 2009, Vancouver, B.C., V6B 3R2
Edmonton, Calgary, Winnipeg

DIRECTIONS FOR USE

Insects on Ornamentals

Apply Diazinon 500 E.C. thoroughly at rates given below when insects first appear. Repeat as necessary.

Ornamental Plants	Pests	Quantity of Diazinon 500 E.C. per 100 L of spray
Arbour vitae, Azalea, Birch Boxwood, Chrysanthemums, Oak	Leaf Miner	1.0 L
Aralia, Azalea, Ivy	Privet Mite	1.0 L
Arbour vitae, Juniper, Pine, Taxus	Scale Insects (crawlers)	1.5 L

Holly	Leaf Miners	1.0 L
	Pulvinaria & Coccus Scales	3.7 L
	Aphids, Bud Moths Note - Apply when new growth is about 5 cm long and before blossoms open.	2.0 L

Insect Control of Lawns
Leatherjackets (for British Columbia only)

For control of leatherjackets on pasture (grass and clover), lawns, parks and golf courses, apply 7 L/ha of Diazinon 500 E.C. in 450 - 500 L. of water per hectare when insects first appear. Consult B.C. spray calendar for further information. Do not treat within 14 days of grazing, feeding or harvest.

Fruit Insects

For control of insects and mites on fruit, apply in accordance with the directions in the following tables.

Fruit Insect Pest		
Pest	Quantity of Diazinon 500 E.C. per 1000 L of Spray	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	500 mL + 20 L dormant emulsive oil.	Dormant application with full coverage.
Fruit Tree Leaf Roller	1 L	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	1 L	Use in pre-pink first second and third cover sprays.
Eye Spotted Bud Moth	1 L	Apply at pink stage, also a special spray at full hatch (late July, early Aug).
Tentiform Leaf Miner	1 L	Apply with full coverage in calyx and first cover spray include in later cover sprays if 2nd and 3rd eneration develop.
Codling Moth	1 L	Apply in all cover (summer) sprays and in special sprays against 2nd brood.
Apple Maggot	1 L	Include at least 3 cover sprays 10 days apart when flies are active and laying eggs.
Aphids (rose-apple-woolly)	500-1000 mL	Apply in a thorough cover spray, repeat as necessary.
Mealybugs, Scales (crawlers) Stink Bugs, Pear Leaf Miner	1 L	Time applications according to insect incidence.
Note: Slight russeting may occur on some varieties of apples such as Golden Delicious.		

PEARS - Do not apply within 14 days of harvest.		
San Jose Scale	1 L + 20 L dormant emulsive oil	Apply as a dormant application with full coverage.
CHERRIES - Do not apply within 10 days of harvest		
San Jose Scale	1.25 L + 30 L dormant emulsive oil	Apply with thorough coverage as a dormant spray.
San Jose Scale (crawlers)	1 L	Apply at pre-pink stage or when crawlers first appear.
Fruit Tree Leaf Roller	1 L	Apply with full coverage beginning with petal fall.
Cherry Fruit Flies	1 L	Apply when the flies begin to emerge, repeat 2 or 3 times at 10 day intervals.
Black Cherry Aphids	1 L	Spray on first appearance repeat after 10 days.
PEACHES AND APRICOTS - Do not apply to peaches with 20 days and to apricots within 10 days of harvest.		
Peach Twig Borer & San Jose Scale	1 L + 20 L emulsive oil	Dormant spray with thorough coverage.
Peach Twig Borer	1 L + 20 L Light to med. summer oil	Apply at petal fall with thorough coverage.

	1 L	For control on peaches in May and June apply as a full cover spray.
Aphids San Jose Scale (crawlers)	1 L	Apply in a thorough cover spray when pests are first noted repeat as necessary.
PLUMS AND PRUNE PLUMS - Do not apply within 10 days of harvest		
Peach Twig Borer, Mealy Plum Aphid Eggs, San Jose Scale	1 L + 25 L dormant emulsive oil	Apply as a dormant spray.
	OR 1 L + 10 L light to medium flowable summer oil	Apply during late April or May.
Aphids (Mealy Plum, Leaf Curl, Plum Thistle)	1 L	Apply in a thorough cover spray, repeat as necessary.
Apple Maggot	1 L	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 fireworms, Sparganothis sulfureana	4.5 L in 3200 - 3500 L water per hectare	Apply when insects first appear, repeat when necessary.
Cranberry Fruit Worm	7 L/ha in 3200 - 3500 L water	Apply when insects appear, repeat as necessary.
GRAPES - Do not apply within 16 days of harvest		

Leafhoppers, Grape Berry Moth, Grape Leaf Folder Mealybugs	1 L/1000 L or 2.75 - 3.5 L/ha	Apply when insects first appear, repeat as necessary.
RASPBERRIES- Do not apply to these fruits after bloom		
Raspberry Crown Borer	1 L	Apply as a drench to the crown area using 500 mL of the mixture per plant (about 4000 L/ha). Apply when new cane growth is about 10 cm. above ground.
Leafhoppers (including Macropsis), Aphids, Fruitworm, Thrips and Raspberry Sawfly	1 L	Apply when blossom buds separate.
STRAWBERRIES - Do not apply within 5 days of harvest		
Strawberry Leaf Roller, Spittlebugs	1 L	Apply when blossoms show colour. Use thorough coverage. Use at the rate of 2000 L/ha.
Aphids	1 - 2 L	Apply as a thorough cover spray when pests first noted, repeat as necessary.

VEGETABLE INSECT PESTS

For control of the insects listed below, apply the specified amount of Diazinon 500 E.C. 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 E.C. closer to harvest than time interval shown in the table.

Crop	Interval to Harvest in Days	Pests	Quantity Diazinon 500 E.C./ha
Beans	7	Aphids, Mexican Bean Beetles	1.1 L
Beets	14	Aphids, Dipterous Leaf Miners	1.1 L
Broccoli	5	Aphids, Diamondback Moths, Cabbageworms	1.1 L
Cabbage	7	Aphids, Diamondback Moths, Cabbageworms	1.1 L
Carrots	10	Aphids	1.1 L
		Carrot Rust Fly (Adult) 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
Cauliflower	5	Aphids, Diamondback Months, Cabbageworms	1.1 L
Cucumbers	7	Cucumber Beetles, Aphids, Thrips	2.2 L
Lettuce	10	Aphids, Dipterous Leaf Miners	1.1 L
Lima Beans	3	Black Bean Aphids, Mexican Bean Beetles, Dipterous Leaf Miners, Leaf Hoppers	1.1 L
Onions	10	Onion Thrips	1.1 L

		Onion Maggot. Use the higher rate on organic soil and the lower rate on mineral soils. Apply in sufficient water to drench the seed furrow at planting or sowing time. Rate given is based on 38 cm row spacing, for other row spacings adjust rate on basis of 15 mL/loom of row.	2.2-3.3 L
		Onion Maggot Flies. Apply when flies become numerous and repeat at 7-10 day intervals as infestation warrants.	1.1 L
Parsnips	10	Aphids, Flea Beetles, Dipterous Leaf Miners	1.1 L
		Carrot Rust Fly (Adult) 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
Potatoes	14	Aphids, Flea Beetles, Colorado Potato Beetles Leafhoppers, Dipterous Leaf Miners.	1.1 L
Radishes & Salsify	10	Aphids, Flea Beetles, Dipterous Leaf Miners	1.1 L
Spinach	10	Aphids, Dipterous Leaf Miners	1.1 L
Squash	3	Aphids, Cucumber Beetles, Thrips Leafhoppers	1.1 L - 2 L

Tomatoes	1	Aphids, Dipterous Leaf Miners, Vinegar Flies (<i>Drosophila</i> spp) For Leaf Miners and Vinegar Flies applications at weekly intervals will generally be required.	1.1-1.7 L
Turnips & Rutabagas	14	Aphids, Flea Beetles Dipterous Leaf Miners	1.1 L
		Root Maggots. Use one of program A, B, C or D.	1.1 L
A. Using 1100 L or more/ha of spray, apply as a drench in a narrow band directly over the row as soon as the seedlings are up. Make a second treatment after thinning. These drenches must be thoroughly applied so that the soil adjacent to each individual plant is treated. On larger plants this can be accomplished by rigging one or two hoses from a tractor mounted sprayer. The stream of insecticide mixture should be directed to the base of each plant by men following the tractor.			2.2 L
B. Apply 56 kg/ha of Diazinon 5G in the furrow at seeding time. Two weeks after thinning make a second application using Diazinon 500 E.C. applied as a drench as described under A. Additional drench treatments may be required with the A. or B. program depending on the seeding date and severity of maggot attack. Consult local agricultural authorities concerning the need for and timing of these treatments.			2.2 L
C. Apply 56 kg/ha of Diazinon 5G in the furrow at seeding time. Five or six weeks later apply a spray of Diazinon 500 E.C. Spray the soil surface and plants in order to kill adult flies as they arrive. Repeat the spray at weekly intervals. Consult local agricultural authorities concerning the best time for spray treatments.			1.1 L
D. Using 1100 L/ha or more of spray, apply as a drench in a narrow band directly over the row as soon as the seedlings are up. Five or six weeks later commence weekly sprays using Diazinon 500 E.C. at 1.1 L/ha as outlined in Program C.			2.2 L

Mushroom Houses Mushroom Flies (Phonds and Sciands) use 1 - 2 L of Diazinon 500 E.C. to 100 L of water (0.5% to 1% actual) and spray on the outside and inside walls and ventilators to mushroom houses after the compost in the beds has been pasteurized by heating.

*Do not spray on the compost in the beds or after spawning. To treat the wooden sides of the beds, post, doors and door frames after pasteurizing, add 1 L Diazinon 500 E.C. to 100 L water and apply with a brush. Repeat these applications when necessary.

*Do not allow the material to get into the casing soil or the mushrooms.

PRECAUTIONS

Keep out of Reach of Children May be fatal if swallowed. May be absorbed through the skin. Avoid contact with skin and eyes, inhalation of vapours or spray mist. Wash thoroughly after use and avoid contamination of food or feed. Do not smoke when using this product. Wear protective clothing, natural rubber gloves and goggles when handling and wash all contaminated clothing with soap and hot water before re-using.

Do not re-use container. Crush and bury empty containers and any unused chemical at least 45 cm. deep in an isolated area away from water supplies.

NOTE: Diazinon is toxic to fish and wildlife. Do not allow to contaminate irrigation or domestic water supplies, lakes, rivers, ponds or streams.

FLAMMABLE MIXTURE

Do not use or store near heat or open flame. Do not smoke when handling the concentrated product.

FIRST AID

In case of poisoning call a physician immediately. Have patient lie down and keep quiet. If swallowed, induce vomiting until vomit fluid is clear. If on skin, remove contaminated clothing and wash immediately with soap and warm water. If eyes are contaminated, flush with flowing water for at least 15 minutes.

TOXICOLOGICAL INFORMATION

Symptoms of poisoning: A sense of "tightness" in the chest. Contracted pupils. Sweating, Stomach pains. Vomiting and diarrhea. Treatment - Stomach lavage. Diazinon is a

cholinesterase inhibitor. Atropine sulphate is antidotal. Administration of atropine sulphate at 1 - 2 milligrams every 15 to 30 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.