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BASUDIN (R) 500EC

INSECTICIDE

AGRICULTURAL

FORMULATION OF DIAZINON

Emulsifiable Concentrate for: control of insect pests on fruit, hops, vegetables, lawns, Christmas tree plantations, ornamentals and for fly control.

NET CONTENTS: 4 litres

GUARANTEE:	
diazinon	500 g/L

READ THE LABEL AND PAMPHLET BEFORE USING

REGISTRATION NO.: 10979 PEST CONTROL PRODUCTS ACT **DANGER**

Novartis Crop Protection Canada Inc. 140 Research Lane Research Park, University of Guelph Guelph, Ontario N1G 4Z3

POISON

LABEL

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.

GENERAL PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN AND DOMESTIC ANIMALS. Do not use on humans, pets, livestock. May be fatal if swallowed. Do not get into eyes. Avoid contact with skin and inhalation of spray mist. Wash thoroughly after handling. Use only as recommended on the label. Do not re-use container. When applying to turf wear coveralls over work clothes and chemical resistant gloves during mixing, loading application, irrigation and clean-up activities. Wear a NIOSH approved respirator during mixing and loading activities.

Do not re-enter treated lawns/turf for 24 hours following application and irrigation (except golf courses and sod farms). Warning signs must be posted advising people to keep off treated areas for 24 hours following application and irrigation.

Fish and Wildlife Precautions:

This product is toxic to birds, fish and wildlife, including waterfowl. Do not contaminate domestic or irrigation water supplies, lakes, streams and ponds. Birds and waterfowl feeding or drinking on treated areas may be killed. Do not apply where waterfowl are expected to inhabit the area or where there are resident populations of waterfowl. Do not exceed maximum permitted label rates as rates above those recommended significantly increase potential hazards to birds and waterfowl. Avoid overlapping of sprays. Irrigation (watering) is recommended, applying a minimum of 0.7 cm (0.25 inches) of water immediately after application to reduce the hazards to birds. Stop irrigation as soon as puddling occurs.

Toxic to Bees:

Avoid spraying open flowers.

FIRST AID:

In case of poisoning, call a physician or poison control centre immediately. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

<u>If swallowed.</u> DO NOT induce vomiting as product contains a petroleum distillate. Never give anything by mouth to an unconscious or convulsive person. Artificial respiration may be required. Obtain prompt medical attention, taking product label with you or contact a poison control centre.

<u>If inhaled</u>, move to fresh air, change clothing. Wash thoroughly and see a doctor. Artificial respiration may be required.

<u>If in eyes</u>, splash repeatedly with large amounts of clean water for at least 15 minutes. Obtain medical attention or contact a poison control centre.

<u>If on skin</u>, remove contaminated clothing immediately. Wash skin thoroughly with soap and water. If irritation occurs, obtain medical attention or contact a poison control centre.

TOXICOLOGICAL INFORMATION:

Diazinon is an organophosphorus insecticide and, as such, a cholinesterase inhibitor. If cholinergic symptoms occur, give atropine as an antidote followed by Pralidoxime (2-PAM) and supporting therapy.

DECONTAMINATION AND CONTAINER DISPOSAL:

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

- 1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
- 2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

FOR DISPOSAL OF UNUSED, UNWANTED PRODUCT:

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up.

IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING CALL 1-800-267-6351

(R) Basudin is a registered trademark of Novartis Crop Protection Canada Inc.

((Pamphlet))	
BASUDIN (R) 500EC	
INSECTICIDE	
AGRICULTURAL	
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CROP INFORMATION:

Basudin (R) 500EC provides selective insect control in:

FRUIT:

Apples, pears, cherries, peaches, apricots, plums, prunes, cranberries, currants, gooseberries, grapes, loganberries, raspberries, blackberries, and strawberries.

HOPS

VEGETABLES AND FIELD CROPS:

Beans, beets, broccoli, cabbage, cantaloupes, carrots, cauliflower, collards, cucumbers, kale, kohlrabi, lettuce, lima beans, mushrooms, muskmelons, onions, parsley, parsnips, peppers, potatoes, radishes, salsify, spinach, squash, Swiss chard, tomatoes, turnips, rutabagas and watermelon.

CHRISTMAS TREE PLANTATIONS

ORNAMENTAL PLANTS

LAWNS

INSECTS CONTROLLED AND TIMING OF APPLICATION:

See specific insects controlled and timing of application on the attached pages as per crop category.

TANK MIXES AND COMPATIBILITIES:

Note: Do not mix BASUDIN 500EC with any formulation of Captan because crop injury may occur.

Refer to provincial production recommendations for compatibility charts.

Do not allow spray mixtures to sit overnight.

Adhere to tank mix product labels for precautions, warnings, restrictions, tank mixing and spraying instructions, days to harvest, stage for crop application.

FRUIT INSECTS:

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

PESTS	QUANTITY OF BASUDIN 500EC	TIME AND NUMBER OF
	PER 1000 L OF SPRAY	APPLICATIONS
APP	LES - Do not apply within 14 days of Do not apply after petal fall	harvest
San Jose scale, eggs of apple	500 mL + 20 L dormant emulsive	Dormant application with full
aphids, eggs of European red	oil	coverage.
mite and brown mite		
Fruit-tree leafroller	1 L	Apply with full coverage in 3-8
		cover sprays beginning in pink
		stage.
Green fruitworm	1 L	Apply at pink stage.
APPLES AN	ND PEARS - Do not apply within 14 or Do not apply on Apples after petal f	,
Pear psylla	1 L	Use in pre-pink, first, second and
i eai psylla		
Eye-spotted bud moth	1 L	third cover sprays. Apply at pink stage, also a
Lye-spotted bud motif		
		special spray at full hatch (late
Tentiform leaf miner	1 L	July, early August). Apply with full coverage in calyx
Tentilonn lear miller		and first cover spray. Include in
		later cover sprays if 2nd and 3rd
		generations 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,
11		10 days apart, when flies are
		active and laying eggs.
Aphids	500 mL - 1 L	Apply in a thorough cover spray;
(rose-apple-woolly)		repeat as necessary.
Mites	1 L	Apply when mites first appear;
	For heavy infestation, repeat as	mites will be suppressed if
	necessary	Basudin 500EC is used in regular
		spray program.
Mealybugs, scales, (crawlers),	1 L	Time applications according to
stink bugs, pear leaf miner		insect incidence.

Blister mites	1.5 L + 10 L light to medium	Post-harvest treatment.
	horticultural oil	

NOTE: Slight russetting may occur on some varieties of apples such as Golden Delicious.

PESTS	QUANTITY OF BASUDIN 500EC	TIME AND NUMBER OF
	PER 1000 L OF SPRAY	APPLICATIONS
PEAR	S - 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.
CHER	RIES - Do not apply within 10 days o	of harvest
San Jose scale	1.25 L + 30 L dormant emulsive	Apply with thorough coverage as
	oil	a dormant spray.
San Jose scale crawlers	1 L	Apply at pre-pink stage or when
		crawlers first appear.
Fruit-tree leafroller	1 L	Apply with full coverage
Eye-spotted bud moth		beginning with petal fall.
Cherry fruit flies	1 L	Apply when flies begin to
		emerge; repeat 2 or 3 times at
		10-day intervals.
Black cherry aphids, mites	1 L	Spray on first appearance; repeat
		after 10 days.
Rust mites	1 L	Spray thoroughly after harvest.

PEACHES AND APRICOTS - Do not apply to peaches within 20 days and to apricots within 10 days of			
	harvest		
Peach twig borer and San Jose scale	1 L + 20 L emulsive oil	Dormant spray with thorough coverage.	
Peach twig borer	1 L + 10 L light medium summer oil 1 L	Apply at petal fall with thorough coverage. For control on peaches in May and June apply as a full cover spray.	
Aphids, clover and two-spotted mites, San Jose scale crawlers	1 L	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			
Peach twig borer, mealy plum	1 L + 25 L dormant emulsive oil	Apply as a dormant spray.	
aphid eggs, San Jose scale			
	OR	Apply during late April or May.	
	1 L + 10 L light to medium		
	flowable summer oil		
Bud moth	1 L	Apply at pink stage.	
Aphids (mealy plum, leaf curl	1 L	Apply in a thorough cover spray;	
plum, thistle)		repeat as necessary.	
Clover and European red mites	1 L	Apply when mites first appear;	
		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 fireworm,	4.5 L in 3200 - 3500 L water per	Apply when insects first appear;		
Spargonothis sulfureana	hectare	repeat when necessary.		
Cranberry fruitworm	7 L in 3200 - 3500 L water per	Apply when insects appear;		
	hectare	repeat as necessary.		
CURRENTS	AND GOOSEBERRIES - Do not ap	ply after bloom		
Aphids, Lecanium scale	1 L	Apply immediately before first		
crawlers, sawfly		blooms open.		
GRAI	GRAPES - Do not apply within 16 days of harvest			
Leafhoppers, grape berry moth,	1 L/1000 L (2.75 - 3.5 L/hectare)	When insects first appear; repeat		
grape leaf folder, mealybugs		when necessary.		
Pacific mites	1.9 - 2.5 L/1000 L	When mites first appear; repeat		
		when necessary.		
LOGANBERRIES, RASPBERRIES AND BLACKBERRIES - Do not apply to these fruits after bloom				
Raspberry crown borer	1 L/1000 L	Apply as a drench to the crown		
		area using 600 mL of the mixture		
		per plant (4000 L per hectare).		

		Apply when new cane growth is
		about 10 cm above the ground.
Leafhoppers (including	1 L	Apply when blossom buds
Macropsis), aphids, fruitworm,		separate.
thrips and raspberry sawfly		

STRAWBERRIES - Do not apply within 5 days of harvest			
Strawberry leafroller,	1 L/1000 L of water	Apply when blossoms show	
spittlebugs		colour. Use thorough coverage.	
		Use at the rate of 2000 L per	
		hectare.	
Aphids and two-spotted mites	1 - 2 L/1000 L	Apply as a thorough cover spray	
		when pests first noted; repeat as	
		necessary.	
Cyclamen mites	2 L/1000 L	Direct spray into the crowns of	
		plants; agitate the plants to	
		ensure thorough coverage. For	
		supplemental treatment	
		additional applications should be	
		made after fruit harvest.	

INSECTS ON HOPS:

APHIDS AND MITES

Apply 2.2 L Basudin 500EC per hectare 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 Basudin 500EC with a sprayer in sufficient water to achieve thorough coverage of the attacked crop. Apply when the insects first appear and repeat as infestations warrant. Do not apply Basudin 500EC closer to harvest than the time interval shown in the table.

CROP	INTERVAL TO HARVEST IN DAYS	PESTS	QUANTITY OF BASUDIN 500EC PER HECTARE
Beans	7	Aphids, Mexican bean beetles	1.1 L
Beets	14	Aphids, Dipterous leaf miners	1.1 L
Broccoli	5	Aphids, diamondback moths, cabbageworm	1.1 L

Cabbage	7	Aphids, diamondback moths,	1.1 L
Cabbage	,	cabbageworm	
Cantaloupes	10	Aphids, cucumber beetles, thrips,	1.1 to 2 L
		leafhoppers, mites	
Carrots	10	Aphids	1.1 L
	10	Carrot rust fly (adults). Apply	1.1 L
		when insects first appear and	
		repeat at 7 - 10-day intervals as	
		infestation warrants. Consult local	
		agricultural authorities for correct	
		timing of spray application.	
Cauliflower	5	Aphids, diamondback moths,	
		cabbageworm	
Collards	7	Aphids, diamondback moths,	1.1 L
		cabbageworm	
Cucumbers	7	Cucumber beetles, aphids, mites,	2.2 L
		thrips	
Kale and Kohlrabi	7	Aphids, diamondback moths, 1.1 L	
		cabbageworm	
Lettuce	10	Aphids, Dipterous leaf miners 1.1 L	
Lima Beans	3	Black bean aphids, Mexican bean	1.1 L
		beetles, Dipterous leaf miners,	
		leafhoppers, mites	

Mushrooms

*Mushroom flies (Phorids and Sciarids)

Use 1 to 2 L of Basudin 500EC to 100 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. *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 100 mL of Basudin 500EC to 10 L water and apply with a brush. Repeat these applications when necessary. *Do not allow the material to get onto the casing soil or the mushrooms.

CROP	INTERVAL TO	PESTS	QUANTITY OF
	HARVEST IN		BASUDIN
	DAYS		500EC PER
			HECTARE

Muskmelons	10 Aphids, cucumber beetles, thrips,		1.1 L to 2 L	
		leafhoppers, mites		
Onions	10	Onion thrips	1.1 L	
	10	Onion maggot flies. Apply when	1.1 L	
		flies become numerous and repeat		
		at 7 to 10-day intervals as		
		infestation warrants.		
Parsley	14	Aphids, cabbageworms,	1.1 L	
		diamondback moths		
Parsnips	10	Aphids, flea beetles, Dipterous leaf	1.1 L	
		miners		
	10	Carrot rust fly (adults). Apply when	1.1 L	
		insects first appear and repeat at 7 -		
		10-day intervals as infestation		
		warrants. Consult local agricultural		
		authorities for correct timing of		
		spray applications.		
Peppers	5	Aphids	550 mL to 1.1 L	
Greenhouse Peppers	5	Aphids. Use conventional high	575 mL per 625	
		volume power sprayers. Make	L of water	
		applications monthly or when aphids		
		reach treatment levels. (Rates are		
		equivalent to 230 mL in 250 L of		
		water over 4000 m ²)		
Potatoes	14	Aphids, flea beetles, Colorado	1.1 L	
		potato beetles, leafhoppers,		
		Dipterous leaf miners		
Radishes and Salsify	10	Aphids, flea beetles, Dipterous leaf 1.1 L		
		miners		
Spinach	10	Aphids, Dipterous leaf miners 1.1 L		
Squash	3	Aphids, cucumber beetles, thrips, 1.1 L to 2 L		
		leafhoppers, mites		
Swiss Chard	14	Aphids, diamondback moths,	1.1 L	
		imported cabbage moth		

Tomatoes	1	Aphids, Dipterous leaf miners,	1.1 L to 1.7 L
		vinegar flies (<i>Drosophila</i> spp). For	
		leaf miners and vinegar flies	
		applications at weekly intervals will	
		generally be required.	
Turnips	14	Aphids, flea beetles, Dipterous leaf	1.1 L
		miners	
Rutabagas	14	Root maggot fly adults: Apply when	1.1 L
		insects first appear and repeat at 7 -	
		10-day intervals as infestations	
		warrant. Spray the soil surface and	
		plants in order to kill. Consult local	
		agricultural authorities for correct	
		timing of spray applications.	
Watermelon	10	Aphids, cucumber beetles, thrips,	1.1 L to 1.7 L
		leafhoppers, mites	

INSECTS ON ORNAMENTALS:

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

ORNAMENTAL	PESTS	QUANTITY OF
PLANTS		BASUDIN 500EC
		PER 1000 L OF
		SPRAY
Arbor vitae	Leaf miners	1 L
	Bagworms, scale insect (crawlers)	1.5 L
Aralia	Privet mites	1 L
Azalea	Privet mites, leaf miners	1 L
Birch	Leaf miners	1 L
Boxwood	Leaf miners	1 L
Carnations	Aphids, mites, thrips, caterpillars and leaf miners	1.5 L
Chrysanthemums	Aphids, mites, thrips, caterpillars and leaf miners	1 L
Holly	Leaf miners	1 L
	Pulvinaria and Coccus scales	3.75 L
	Aphids, bud moths - Note : apply when new growth is	2 L
	about 0.6 cm long and before blossoms open.	

lvy	Privet mites	1 L
Oak	Leaf miners	1 L
Pines	Scale insects (crawlers), European pine shoot moth	1.5 L
Taxus (Yew)	Scale insects (crawlers), European pine shoot moth	1.5 L

INSECT CONTROL IN CHRISTMAS TREE PLANTATIONS:

BALSAM GALL MIDGE AND BALSAM TWIG APHID

Wear protective clothing, including gloves, head cover, coveralls and rubber boots. Apply Basudin 500EC by mist blower at 1.7 L in 50 - 100 L of water per ha., to ensure thorough coverage of Christmas trees. Before spraying with Basudin, spray trees in a half-hectare area with 50 L of water only, to confirm that coverage is adequate.

INSECT CONTROL ON LAWNS:

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

PESTS	Type of	Rate	Comments
	Treatment		
Ants, Sod webworms Sowbugs, Pillbugs, Collembola (Springtails)	Spot treatment only	0.75-1.5 ml/1L water/m ²	For spot treatment only in areas of infestation
Chinch Bugs	Spot treatment only	0.9-1.8 ml/1L water/ m ²	For spot treatment only in areas of infestation. Water lightly before and after application.
Earwigs	Spot treatment only	11 ml/1L water	For spot treatment only in areas of infestation.
Fleas, Ticks	Surface spray	56 ml/5L water	5L will treat 100 m ²
White grubs (such	Surface spray for	90 ml/100L water	100L will treat 100 m². Apply when
as European chafer	suppression		sampling indicates that white grub
and Japanese beetle			larvae are actively feeding Thoroughly
larvae)			irrigate after treatment. Do not use in

	areas where the thatch is more than 3
	cm thick.

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