

2011-5024 2011-11-22

GROUP	1B	INSECTICIDE
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DATAPAK

DIAZINON 50 W

INSECTICIDE

COMMERCIAL

This product is not to be used in and around homes or other residential areas such as parks, school grounds, playing fields. It is not for use by homeowners or other uncertified users.

DANGER POISON

READ THE LABEL BEFORE USING

GUARANTEE: DIAZINON 50%

Warning, contains the allergen soy.

**REGISTRATION NO. 19576
PEST CONTROL PRODUCTS ACT**

**IN CASE OF EMERGENCY DUE TO A MAJOR SPILL, FIRE OR POISONING
INVOLVING THIS PRODUCT CALL DAY OR NIGHT, 1-800-561-8273**

**LOVELAND PRODUCTS CANADA INC.
789 Donnybrook Drive
Dorchester, Ontario
N0L 1G5
1-800-328-4678**

NET CONTENTS: 2 kg

DIRECTIONS FOR USE:

DIAZINON 50 W is generally effective in controlling the insects and mites listed below. DIAZINON 50 W will work more effectively if the temperature is 20° C or more or when temperatures will reach or exceed this minimum. Use the rate of DIAZINON 50 W in the full volume of water.

Apply by ground only. **DO NOT APPLY BY AIR.**

Mist blowers and boom sprayers utilizing a controlled air flow to facilitate particle size and spray deposition may be used at a vehicle speed of 5-15 km/h.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that DIAZINON 50 W Insecticide contains a Group 1B insecticide/acaricide. Any insect/mite population may contain individuals naturally resistant to DIAZINON 50 W Insecticide and other Group 1B insecticide/acaricide. The resistant individuals may dominate the insect/mite population if this group of insecticides/acaricides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but are specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay insecticide/acaricide resistance:

- Where possible, rotate the use of DIAZINON 50 W Insecticide or other Group 1B insecticides/acaricides with different groups that control the same pathogens.
- Avoid application of more than the indicated number of sprays of DIAZINON 50 W Insecticide or other insecticides/acaricides in the same group in a season.
- Use tank mixtures with insecticides/acaricides from a different group when such use is permitted.
- Insecticide/acaricide use should be based on an IPM program that includes scouting, record keeping and considers cultural, biological and other chemical control practices.
- Monitor treated pest populations for resistance development.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information and to report suspected resistance, contact the Technical Service, Loveland Products Canada Inc, 1-800-328-4678 or at www.uap.ca.

FRUIT APPLICATIONS

FOR DILUTED GROUND APPLICATIONS, USE DESIGNATED AMOUNT OF DIAZINON 50 W IN 1000 LITRES OF WATER UNLESS OTHERWISE SPECIFIED. For Apples, Apricot, Cherry, Peach, Pear, Plum and Prune Plum the

rate per hectare is based on using 3000 L of spray on full sized trees 4.5 - 5.5 metres high. Trees smaller or larger may require more or less DIAZINON 50 W. Follow provincial calendar guidelines as to water volumes for the size of tree being sprayed.

NOTE: For concentrate sprayer applications, apply the same quantity of DIAZINON 50 W /ha as would be applied when spraying dilute.

FRUIT	INSECT	RATE OF APPLICATION per 1000 L of Spray or as otherwise noted	DIRECTIONS FOR USE
Apples	Codling moth	1 kg	Apply in all cover sprays and in special spray against second brood.
Pears	Apple maggot	1 kg	Include in at least 3 cover sprays 10 days apart when flies are active and laying eggs.
	Pear psylla	1 kg	In pre-pink first, second and third cover sprays.
	Eye-spotted bud moth	1 kg	Apply at pink stage, also a special spray at full hatch (late July early August)
	Mites	1 kg	Apply when mites first appear; mites will be suppressed if DIAZINON 50 W is used in the regular spray program
	Mealybugs, Scales (crawlers), Stink bugs, Pear leaf miner	1 kg	Applications should be timed according to insect incidence
	Blister mites	1.5 kg + 10 L of light to medium Horticultural Oil	Post-harvest treatment
	Aphids (Rosy, apple, Woolly)	0.5 – 1 kg	Apply in a thorough cover spray; repeat as necessary.
	Tentiform leafminer	1 kg	Apply with full coverage in calyx and first cover spray. Include in later cover sprays if second and third generations develop.
	Green fruit worms	1 kg (4.5 kg/ha)	Apply at pink stage.
Apples	San Jose scale, Eggs of Apple aphids, Eggs of European red mite and Brown mite	0.5 kg + 20 L dormant oil Apply as a dormant spray.	Apply with full coverage. Do not apply to apples later than 14 days before harvest. Slight russetting may occur on some varieties of apples such as Golden Delicious.
	Fruit-Tree Leafroller, Green fruitworm	1 kg	Apply with full coverage in 3 to 8 cover sprays beginning in the pink stage.
	Campyloomma (B.C. only)	0.5 kg (2.25 kg/ha)	Apply at calyx or petal fall.
	Campyloomma-Mullein leaf bug (Eastern Canada)	3.25 kg/ha	Apply at calyx.

	Pale apple leafroller (Quebec)	2 kg (5.5 kg/ha)	Apply once at pink.
	European fruit scale	5.5 kg/ha	Apply at calyx stage preceded by a Superior Oil application of 60 L in 4000L of water per ha at dormancy
	Apple leaf midge (Eastern Canada)	1 kg	
Pears	San Jose scale	1 kg + 20 L dormant oil	Apply as a dormant application with full coverage.
	Fruit-Tree Leafroller	1 kg (4.5 kg/ha)	Apply at pink stage. Do not apply to pears later than 14 days before harvest.
Cherries	Cherry fruit fly	1 kg	Apply when flies begin to emerge, repeat 2 or 3 times at 10 day intervals. Do not spray later than 10 days before harvest.
	Black cherry aphid, Mites	1 kg	Spray on first appearance, repeat after 10 days. Do not spray later than 10 days before harvest.
	San Jose scale	1.25 kg + 30 L of dormant oil	Apply with thorough coverage with dormant spray.
	San Jose scale (crawlers)	1 kg	Apply at pre-pink stage or when crawlers first appear.
	Rust mite	1 kg	Spray thoroughly after harvest.
	Fruit-Tree Leafroller, Eye-spotted bud moth	1 kg	Apply with full coverage beginning with petal fall. Do not apply within 10 days of harvest.
Peaches Apricots	Peach twig borer, San Jose scale	1 kg + 20 L oil	Apply with thorough coverage as a dormant spray.
		1 kg + 10 L light/medium summer oil	Apply at petal fall with thorough coverage on peaches. This spray is effective for peach twig borer on peaches.
		1 kg	For control of peach twig borer in May and June on peaches. Apply with full coverage.
	Aphids, Clover mites, Two spotted mites San Jose scale (crawlers)	1 kg	Apply in a thorough cover spray when pests are first noticed. Repeat as necessary. Do not apply to peaches within 20 days and to apricots within 10 days of harvest.
Plums, Prunes	Peach twig borer, Mealy plum aphid (eggs), San Jose scale	1 kg + 25 L dormant oil	Apply as a dormant spray.
		1 kg + 10 L light/medium flowable summer oil.	For application during late April or May.
	Mealy plum aphids, Leaf curl plum aphids, Thistle aphids	1 kg	Apply in a thorough cover spray and repeat as necessary
	Clover mites, European red mite	1 kg	Apply when mites first appear. Repeat as necessary.
	Eyespotted bud moth	1 - 1.5 kg	Apply at pink stage.
	Apple maggot	1 kg	Apply where a problem exists on prunes. Apply 2 or 3 sprays at 10 day intervals during July and early August. Do not

			spray to prunes or plums in fruit within 10 days of harvest.
Cranberries	Black-headed fireworm, <i>Sparganothis sulfureana</i>	4.5 kg in 3200-3500 L/ha	Apply when insects first appear; repeat as necessary. Do not apply within 7 days of harvest.
	Cranberry fruit worm	7.25 kg in 3200-3500 L/ha	Apply when insect first appears; repeat when necessary. Do not apply within 7 days of harvest.
Currants Gooseberries	Aphids, European fruit scale (crawlers), Lecanium scale (crawlers), Sawfly	1 kg	Apply immediately before the earliest blossoms open.
Grapes	Leafhoppers Grape berry moth, Grape leaf folder	1 kg (3.375 kg/ha)	Apply when insects first appear and repeat as infestation warrants.
	Mealybugs, Pacific mites	2-2.25 kg	Apply when mites first appear and repeat as necessary. Do not apply within 16 days of harvest.
Hops	Aphids, Mites	2.25 kg/ha	Apply in sufficient water to achieve thorough coverage when insects first appear, repeating as necessary. Do not apply within 14 days of harvest.
	Seed corn maggots	500-850 g/ha (60 g/ 200 L of planting water applied at rate of 2000 L or more per ha)	Do not use in conjunction with starter fertilizer.
Loganberries, Blackberries, Raspberries	Raspberry crown borer	1 kg	Apply as a drench to the crown area using 0.5 L/plant (4000 L/ha). Apply when new cane growth is about 10 cm above the Ground.
	Leafhoppers (including Macropsis) Aphids, Fruitworms, Thrips, Raspberry sawfly	1 kg	Apply when blossom buds separate. DO NOT SPRAY DURING BLOOM TO AVOID INJURY TO POLLINATING INSECTS. Do not apply to these fruits after bloom.
Strawberries	Aphids, Two-spotted mites	1-2 kg	Apply as a thorough cover spray when pests are first noted. Repeat as necessary.
	Omnivorous leaf tier, Cyclamen mites	2.25 kg	Direct the spray into the crowns of plants; agitate the plants for thorough coverage. For supplemental treatment additional applications should be made after fruit harvest.
	Strawberry leafroller, Meadow spittlebug	1 kg/1000 L (2000 L/ha)	Apply when blossoms show colour. Use thorough coverage. Do not apply to strawberries in fruit later than within 5 days of harvest.

VEGETABLE INSECT CONTROL:

Unless otherwise stated below, use a standard rate of 1.1 kg per ha in sufficient water to achieve thorough coverage of the specific crop and apply when insects first appear, repeating as infestations warrant.

VEGETABLE	INSECT	RATE OF APPLICATION per HECTARE	DIRECTIONS FOR USE
Beans (Field, Snap)	Aphids, Leafhoppers, Mexican bean beetle, Dipterous leafminers	1 kg	Do not apply later than 7 days before harvest.
Broccoli, Cauliflower, Cabbage, Collards, Kale, Kohlrabi	Aphids, Diamondback moth, Cabbageworm	1 kg	Apply at 7-10 day intervals. Do not apply to broccoli or cauliflower within 5 days of harvest. Do not apply to cabbage, collards, kale or kohlrabi within 7 days of harvest.
Cauliflower, Broccoli, Brussels Sprouts	Root maggots (planting water treatment)	550 g / 1000 L of planting water	Stir occasionally to prevent excessive settling. Drain and flush the barrel or tank periodically to avoid buildup of concentration of Diazinon. Apply 175 mL of mixture per plant or use as a drench within a week of planting, applying 175 mL of mixture around stem of each plant. An additional drench may be required after one month.
Cantaloupe	Aphids, Cucumber beetle, Thrips, Leafhoppers, Mites	1-1.2 kg	Do not apply to cantaloupe, within 10 days of harvest.
Carrots	Aphids	1.1 kg	Do not apply to carrots within 10 days of harvest.
	Carrot rust fly (adult)	1.1 kg	Apply when flies first appear and repeat at 7-10 day intervals, as required. Consult local agricultural authorities for correct timing of spray application. Do not apply within 10 days of harvest.
Corn, Peas, Beans (all types including Lima, Snap, Field and Soybeans)	Seed corn maggot	20 g/300 mL water/4 L seed Beans: Do not store treated seed more than 3 months before planting. Apply only in conjunction with or over a fungicidal treatment.	Thoroughly wet seed with the mixture. Treat seed within 3 months of planting at 60 g/100 kg of seed. Add the correct amount of DIAZINON 50 W to 1 L of water for each 100 kg to be treated and thoroughly wet seed with the mixture. Commercial seed treating equipment, cement mixer or hand shoveling are all suitable treating methods. Dry seed before bagging or planting. Do not use more than the recommended rate; injury or a reduced stand may result. Use at the rate of 100 g of DIAZINON 50 W to 10 L of water. If seed has not been treated with a fungicide, Captan or Thiram may be used in combination with DIAZINON 50 W, following the rates and other directions given on the fungicide

			package. Failure to use a fungicide with DIAZINON 50 W may result in poor emergence of the seed.
CAUTION: Wear rubber gloves when handling seed treated with Diazinon. Treated seed should be labelled. "POISONOUS TO MAN AND ANIMALS. THIS SEED HAS BEEN TREATED WITH DIAZINON. DO NOT USE FOR FEED OR FOOD PURPOSES."			
Cucumbers	Cucumber beetle, Aphids, Mites, Thrips	2.25 kg	Do not apply within 7 days of harvest.
Lettuce	Aphids, Dipterous leafminers	1.1 kg	Do not apply within 10 days of harvest.
Lima Beans	Black bean aphid, Mexican bean beetle, Dipterous leafminer, Leafhoppers, Mites	1.1 kg	Do not apply within 3 days of harvest.
Mushrooms	Phorid flies, Sciarid flies	5-10 kg / 500 L water	Spray on the outside and inside walls of ventilator walls 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 beds, posts, doors and door frames after pasteurizing, apply with a brush. Repeat applications when necessary. Do not allow the material to get onto casings, soil or mushrooms.
Muskmelons	Aphids, Cucumber beetles, Thrips, Leafhoppers, Mites	1.1 – 2 kg	Do not apply within 10 days of harvest.
Onions	Onion maggot	2.25 – 4.5 kg	Use the higher rate on organic, lower on mineral soils (in sufficient water to drench the furrow at planting or sowing time). Rates appropriate for 37.5 cm spacing; for other spacings adjust rate on a basis of 10-17g per 100 m of row length.
	Onion maggot flies	1.1 kg	Apply when flies become numerous and repeat at 7-10 day intervals as required.
	Onion thrips	2.25 – 4.5 kg	Do not apply within 10 days of harvest.
Parsley	Aphids, Cabbageworms, Diamondback moth	1.1 kg	Do not apply within 14 days of harvest.
Parsnips	Aphids, Flea beetles, Dipterous leafminers	1.1 kg	Do not apply within 10 days of harvest.
	Carrot rust fly (adults)	1.1 kg	Apply when insects first appear and repeat at 7-10 day (adults) intervals as infestation warrants. Consult local agricultural authorities for correct timing of spray applications. Do not apply within 10 days of harvest.
Peppers	Aphids	0.5 kg – 1 kg	Repeat as necessary. Do not apply

			within 5 days of harvest.
Potatoes	Aphids, Flea beetles, Colorado potato beetle, Leafhoppers, Dipterous Leafminers	1.1 kg	Apply in sufficient water to achieve thorough coverage. Repeat as required. Do not apply within 14 days of harvest.
	Root maggots	30 g/20 L water	Treat seed pieces by immersing in a dip.
Radish	Root maggot (Seed Treatment)	125 g/kg seed with 2% Methocel solution	Add this solution to the seed and mix for several minutes until seed is well coated. Dry the seed before sowing. Use with caution on sandy soils, as injury and reduced of stand may result.
Radish, Turnips, Salsify	Aphids, Flea beetles, Dipterous Leafminers		Do not apply to radishes and salsify within 10 days of harvest. Do not apply to turnips within 14 days of harvest.
Rutabagas	Root maggot fly (adult)	1.1 kg	Apply when 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 agriculture authorities for correct timing of spray applications.
Spinach, Beets	Aphids, Dipterous leafminers	1.1 kg	Do not apply to spinach within 10 days. Do not apply to beets within 14 days of harvest.
Squash	Aphids, Cucumber beetles, Thrips, Leafhoppers, Mites	1.1 – 2 kg	Do not apply within 3 days of harvest.
Swiss Chard	Aphids, Diamondback moth, Imported cabbage moth	1.1 kg	Do not apply within 14 days of harvest.
Tomatoes	Aphids, Dipterous leafminers, Vinegar flies	1.1 – 1.75 kg	Use as necessary. For Leafminers and Vinegar flies applications at weekly intervals will generally be required. Do not apply to tomatoes within 1 day of harvest.
Watermelon	Aphids, Cucumber beetles, Thrips, Leafhoppers, Mites	1.1 – 1.7 kg	Do not apply within 10 days before harvest.

INSECTS ON ORNAMENTALS

Apply DIAZINON 50 W thoroughly at rates given below when insects first appear. Repeat as necessary. Apply by ground only. This product is not to be used in and around homes or other residential areas such as parks, school grounds, playing fields. It is not for use by homeowners or other uncertified users.

ORNAMENTALS	INSECT	RATE OF APPLICATION DIAZINON 50W PER 1000 L OF SPRAY	DIRECTIONS FOR USE
Arborvitae	Leafminers	1 kg	Apply when insects first appear. Repeat as necessary.
Arborvitae,	Scale insects	1.5 kg	Apply when insects first appear. Repeat as necessary.

Juniper	(crawlers), Bagworms		
Azalea, Aralia, Ivy	Privet mites, Leafminers	1 kg	Apply when insects first appear. Repeat as necessary.
Birch	Leafminers	1 kg	Apply when insects first appear. Repeat as necessary.
Boxwood	Leafminers	1 kg	Apply when insects first appear. Repeat as necessary.
Carnations	Aphids, Mites, Thrips, Caterpillars, Leafminers	1.5 kg	Apply when insects first appear. Repeat as necessary.
Chrysanthemums	Aphids, Mites, Thrips, Caterpillars	0.5 – 1 kg	Apply when insects first appear. Repeat as necessary.
	Leafminers	0.5 kg	Apply weekly as needed when pests appear.
Holly	Aphids, Bud moths	2 kg	Apply when new growth is about 0.6 cm long, and before blossoms open.
	Pulvinaria (crawlers), Coccus scales (crawlers)	3.5 kg	
	Leafminers	1 kg	Apply when insects first appear. Repeat as necessary.
Oak	Leafminers	1 kg	Apply when insects first appear. Repeat as necessary.
Roses	Aphids, Rose chafer	1.5 kg	Apply when insects first appear. Repeat as necessary.
Euonymous, Juniper, Pines, Taxus (Yew)	Scale insects (crawlers), European pine shoot moth	1.5 kg	Apply as a thorough foliar spray. Treatment should be made when insects first appear. Repeat as necessary.

ADDITIONAL INSECT CONTROL

CUTWORMS: For control of Cutworms (surface and subterranean) in vegetable plots - Apply 4 kg/ha immediately before planting. Use sufficient water to ensure uniform coverage. Mix into 7.5 to 10 cm of soil, 7.5 to 15 cm for subterranean cutworm.

GRASSHOPPERS: For control of grasshoppers on rangeland, pasture, ditch banks, roadsides, fence rows, wasteland, non-crop area and barrier strips and around the margin of field crops apply 1.1 kg of DIAZINON 50 W per ha in sufficient water to obtain thorough coverage when insects first appear. Treat a strip inside the crop as well as headlands and margins outside the crop.

Do not treat field crops within 14 days of harvest. Dairy and beef cattle and sheep may be grazed or fed green forage immediately following application. Hay may be fed if not cut for 21 days following application.

Note: Do not spray livestock directly. Do not apply during bloom to avoid injuring pollinating insects.

LEATHERJACKETS (For British Columbia only): For control of leatherjackets on pasture (grass and clover) and sod apply 7 kg of DIAZINON 50 W per ha in sufficient water to obtain thorough coverage when insects first appear. Consult B.C. spray calendar for further information. Do not treat within 14 days of grazing, feeding or harvest. Do not retreat for 5 days.

CROP	INSECT	RATE OF APPLICATION	DIRECTIONS FOR USE
Tobacco	Seed Corn Maggot	500-850 g/ha (60 g per 200 L of planting water applied at the rate of 2000 L or more per ha).	
Flue cured tobacco seed/seedlings in greenhouses.	Pavement Ants	12.5 g/100m ²	Apply the product in 10-15 L water/100m ² , apply only to areas where monitoring show ants are actively foraging; a second application may be required after 2 weeks if ants reappear.

TANK MIXES

Do not allow spray mixtures to sit overnight.

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

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 and before eating, drinking and smoking. Do not apply by air. Use only as recommended on the label. Do not reuse container. Avoid contamination of food, feed or food utensils.

When applying wear coveralls over work clothes and chemical resistant gloves during loading, application, irrigation and clean-up activities.

Wear NIOSH approved respirator.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's website at www.croplife.ca/.

SYMPTOMS OF POISONING: Headaches, giddiness, blurred vision, nervousness, weakness, nausea, cramps, diarrhea, discomfort in the chest, sweating, miosis, tearing, salivation and other excessive respiratory tract secretion, vomiting, cyanosis, papilledema, uncontrollable muscle twitches, convulsions, coma, loss of sphincter control and loss of reflexes.

FISH AND WILDLIFE CAUTION

This product is toxic to birds, fish and wildlife, including waterfowl. Remove all animals, fish and birds before spraying; do not return them for at least 4 hours after treatment.

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 there are resident populations of waterfowl or where waterfowl may be expected to inhabit the area. Do not exceed label rates because rates above those recommended significantly increase 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. Highly toxic to bees exposed to direct treatment or to residues on crops.

FIRST AID

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

IF SWALLOWED: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable by mouth-to-mouth, if possible. Call a poison control centre or doctor for treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION

Diazinon is an organophosphate insecticide and, as such, a cholinesterase inhibitor. If cholinergic symptoms occur, give atropine as an antidote followed by Pralicoxime (2-PAM) and supporting therapy. Use 1 to 2 mg of atropine every 15 to 30 minutes if necessary.

DISPOSAL

1. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
2. Make the empty container unsuitable for further use.
3. Dispose of the container in accordance with provincial requirements.
4. For information on the 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 of spills.

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 this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.