

WSP label

Diazinon 50WSP Insecticide
In Water Soluble Pouches

GUARANTEE: Diazinon 50%
Warning, contains the allergen soy.

DANGER  POISON

KEEP OUT OF REACH OF CHILDREN
READ LABEL AND DATAPAK BEFORE USING

NETCONTENTS: 454 g

OVERPAK

GROUP	1B	INSECTICIDE
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DIAZINON 50 WSP INSECTICIDE

Wettable Powder

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

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GUARANTEE: DIAZINON 50%

Warning, contains the allergen soy.

**REGISTRATION NO. 29976
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
1-800-265-4624**

NET CONTENTS: 2.27kg (5 x 454 g water soluble pouches)

WATER SOLUABLE PACKETS MAY NOT BE SOLD SEPARATELY

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that DIAZINON 50 WSP Insecticide contains a Group 1B insecticide/acaricide. Any insect/mite population may contain individuals naturally resistant to DIAZINON 50 WSP 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 WSP 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 WSP 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, United Agri Products, 1-800-265-4624 or at www.uap.ca.

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/.

Keep the following personal protective equipment immediately available for use in case of emergency (a broken package, spill, or equipment breakdown): chemical-

resistant coveralls, chemical-resistant gloves, chemical-resistant footwear and a NIOSH-approved respirator.

Mixers/loaders must wear a long-sleeved shirt and long pants, socks and shoes and chemical-resistant gloves.

Applicators using **groundboom equipment** with a closed cab must wear a long-sleeved shirt, long pants, socks and shoes. Wear chemical-resistant gloves when leaving the cab for cleanup and repair.

Applicators using **airblast equipment** with a closed cab must wear a long-sleeved shirt, long pants, socks, and shoes. Wear chemical-resistant gloves when leaving the cab for cleanup and repair. If a closed cab is not available with airblast equipment, applicators must wear:

- Chemical-resistant coveralls over a long-sleeved shirt and long-legged pants
- Chemical-resistant hood
- A NIOSH-approved respirator
- Chemical-resistant footwear plus socks
- Chemical-resistant gloves

Applicators using **handheld equipment**, including paintbrushes, must wear chemical-resistant coveralls over a long-sleeved shirt and long pants, head protection (if spray is directed upward), chemical-resistant gloves, chemical-resistant footwear and a NIOSH-approved respirator.

ENVIRONMENTAL HAZARDS

TOXIC to aquatic organisms.

TOXIC to birds.

TOXIC to small wild mammals.

TOXIC to bees exposed to direct treatment, drift, or residues on flowering crops or weeds. **DO NOT** apply this product to flowering crops or weeds if bees are visiting the treatment area. Minimize spray drift to reduce harmful effects on bees in habitats close to the application site.

TOXIC to certain beneficial insects. Minimize spray drift to reduce harmful effects on beneficial insects in habitats next to the application site such as hedgerows and woodland.

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

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.

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.

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.

DATAPAK

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Wettable Powder

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NET CONTENTS: 2.27kg (5 x 454 g water soluble pouches)

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DIRECTIONS FOR USE:

DIAZINON 50 WSP Insecticide is generally effective in controlling the insects and mites listed below. DIAZINON 50 WSP Insecticide 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 WSP Insecticide 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.

DO NOT apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) or estuarine/marine habitats.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

Field sprayer application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers fine classification. Boom height must be 60 cm or less above the crop or ground.

Airblast application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** direct spray above plants to be treated. Turn off outward pointing nozzles at row ends and outer rows. **DO NOT** apply when wind speed is greater than 16 km/h at the application site as measured outside of the treatment area on the upwind side.

DO NOT apply by air.

Apply only when the potential for drift to areas of human habitation or areas of human activity (houses, cottages, schools and recreational areas) is minimal. Take into consideration wind speed, wind direction, temperature, application equipment and sprayer settings.

Buffer zones:

Use of the following spray methods or equipment **DO NOT** require a buffer zone: hand-held or backpack sprayer and spot treatment.

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of Application	Crop		Buffer Zones (metres) Required for the Protection of:			
			Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:	
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m
Airblast	Apple/pear	Early growth stage	70	65	40	30
		Late growth stage	60	55	30	20
	Stone fruit	Early growth stage	70	60	35	25
		Late growth stage	55	50	25	20

Restricted entry interval:

Crop	Restricted-entry interval (days)
Apple	4
Pear	5
Stone fruit (apricot, cherry, peach, plum and prune)	4
Strawberry	4
Raspberry, blackberry, loganberry, gooseberry, currant	6
Cranberry	3
Carrot, parsnip	3
Onion	3
Rutabaga, turnip	4
Tobacco (seedlings)	2

WHEN USED ON CRANBERRIES:

To minimize surface water contamination when used on cranberries, all effluent water must be impounded and released only when levels of diazinon are $\leq 1 \mu\text{g a.i./L}$.

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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.

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- Monitor treated pest populations for resistance development.
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FRUIT APPLICATIONS

FOR DILUTED GROUND APPLICATIONS, USE DESIGNATED AMOUNT OF DIAZINON 50 WSP Insecticide 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 WSP Insecticide. 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 WSP Insecticide /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 Pears	Codling Moth	1 kg	Apply in all cover sprays and in special spray against second brood.
	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 WSP Insecticide 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.
	Teniform Leaf Miner	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 russeting may occur on some varieties of apples such as Golden Delicious.
	Fruit-Tree Leaf Roller, Green Fruitworm	1 kg	Apply with full coverage in 3 to 8 cover sprays beginning in the pink stage.
	Campylomma (B.C. only)	0.5 kg (2.25 kg/ha)	Apply at calyx or petal fall.
	Campylomma-Mullein leaf bug (Eastern Canada)	3.25 kg/ha	Apply at calyx.
	Pale Apple Leaf Roller (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 Leaf Roller	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 Leaf Roller, 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 kg 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.
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 Leaf Roller, 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	DIRECTIONS FOR USE
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		HECTARE	
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.
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.
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.
Turnips	Aphids, Flea Beetles, Dipterous Leafminers	1.1 kg	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.

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.

CROP	INSECT	RATE OF APPLICATION	DIRECTIONS FOR USE
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

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Mixers/loaders must wear a long-sleeved shirt and long pants, socks and shoes and chemical-resistant gloves.

Applicators using **groundboom equipment** with a closed cab must wear a long-sleeved shirt, long pants, socks and shoes. Wear chemical-resistant gloves when leaving the cab for cleanup and repair.

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- Chemical-resistant coveralls over a long-sleeved shirt and long-legged pants
- Chemical-resistant hood
- A NIOSH-approved respirator
- Chemical-resistant footwear plus socks
- Chemical-resistant gloves

Applicators using **handheld equipment**, including paintbrushes, must wear chemical-resistant coveralls over a long-sleeved shirt and long pants, head protection (if spray is directed upward), chemical-resistant gloves, chemical-resistant footwear and a NIOSH-approved respirator.

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TOXIC to certain beneficial insects. Minimize spray drift to reduce harmful effects on beneficial insects in habitats next to the application site such as hedgerows and woodland.

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Avoid application when heavy rain is forecast.

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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.

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