

2011-5024  
2011-11-22

BASE

**DIAZINON 500 E**

GROUP	<b>1B</b>	INSECTICIDE
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**EMULSIFIABLE CONCENTRATE**

**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 AND ATTACHED BOOKLET BEFORE USING**

**KEEP OUT OF REACH OF CHILDREN**

**REGISTRATION NO: 11889  
PEST CONTROL PRODUCTS ACT**

**GUARANTEE: Diazinon 500 g/L  
Warning, contains the allergen soy.**

**LOVELAND PRODUCTS CANADA INC.  
789 Donnybrook Drive  
Dorchester, Ontario  
N0L 1G5  
(800) 265-4624**

**NET CONTENTS: (4-205) L**

FRONT

**DIAZINON 500 E**

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**NET CONTENTS: (4-205) L**

## 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. Use only as recommended on the label. Do not reuse container. Do not graze or feed immature crops within 14 days of harvest.

DO NOT APPLY BY AIR.

Mixers/loaders must use a closed mechanical transfer loading system for liquid products. Mixers/loaders must wear a long-sleeved shirt and long pants, socks and shoes, and chemical resistant gloves. If a closed loading system is not available, mixers/loaders must wear chemical resistant coveralls over a long-sleeved shirt and long pants, chemical-resistant gloves, chemical resistant footwear and a NIOSH-approved respirator.

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 clean-up 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), and chemical resistant gloves, chemical-resistant footwear and a NIOSH-approved respirator.

Avoid contamination of food, feed or food utensils.

When applying 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.

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.

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](http://www.croplife.ca).

This product contains a petroleum distillate which is moderately to highly toxic to aquatic organisms. Avoid contamination of aquatic systems during application. Do not contaminate these systems through direct application, disposal of waste or cleaning equipment.

**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.

## **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.

## **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 waterfowl are expected to inhabit the area or where there are resident populations of waterfowl. Do not exceed maximum potential 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.

## **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.

**IF SWALLOWED,** Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or a doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

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

### **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. This product contains petroleum distillates. Vomiting may cause aspiration pneumonia. Treat symptomatically.

### **DISPOSAL**

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. 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 pest control product is to be used only in accordance with the directions on the 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

**DIAZINON 500 E**

GROUP	<b>1B</b>	INSECTICIDE
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**EMULSIFIABLE CONCENTRATE**

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COMMERCIAL**

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Warning, contains the allergen soy.**

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N0L 1G5  
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**NET CONTENTS: (4-205) L**

**DIRECTIONS FOR USE:**

DIAZINON 500 E is generally effective in controlling the insects and mites listed below.

DIAZINON 500 E 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 500 E in the full volume of water. 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 5-15km/h.

DO NOT APPLY BY AIR.

**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.

		<b>Buffer Zones (metres) Required for the Protection of:</b>
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Method of Application	Crop		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	Christmas tree plantation	Late growth stage	45	40	15	10
	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)
Christmas tree	4
Apple	4
Pear	5
Stone fruit (apricot, cherry, peach, plum and prune)	4
Strawberry	4
Raspberry, blackberry, loganberry, gooseberry, currant	6
Cranberry	3
Carrot, radish, parsnip	3
Onion	3
Rutabaga, turnip	4

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

**RESISTANCE MANAGEMENT RECOMMENDATIONS**

For resistance management, please note that DIAZINON 500 E Insecticide contains a Group 1B insecticide/acaricide. Any insect/mite population may contain individuals



naturally resistant to DIAZINON 500 E 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 500 E 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 500 E 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](http://www.uap.ca).

#### **FRUIT INSECTS:**

For control of insects and mites on fruit, apply in accordance with the directions in the following table. Apply by ground only to fruit crops.

<b>PEST</b>	<b>QUANTITY OF DIAZINON 500 E Per 1000 L of Spray Unless Otherwise Indicated</b>	<b>Time and Number of Applications</b>
<b>APPLES - DO NOT APPLY WITHIN 14 DAYS OF HARVEST.</b>		
San Jose scale, eggs of apple aphids, eggs of European red mites and brown mites.	500 mL +20 L dormant emulsifiable oil	Dormant application with full coverage.
Fruit-tree leafroller	1 L	Apply in full coverage in 3 to 8 cover sprays beginning in pink stage.
Green fruitworm	1 L	Apply at pink stage.
<b>NOTE: Russeting may occur on some varieties of apples such as Golden Delicious.</b>		
<b>APPLES AND PEARS - DO NOT APPLY WITHIN 14 DAYS OF HARVEST</b>		
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 August).
Tentiform leafminers	1 L	Apply with full coverage in calyx 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 2 <sup>nd</sup> brood.
Apple maggot	1 L	Include at least 3 cover sprays, 10 days apart, when flies are active and laying eggs.
Aphids (rosy-apple-woolly)	500 mL - 1 L	Apply in a thorough cover spray, repeat as necessary.
Mites	1 L	Apply when mites first appear. Mites will be suppressed if DIAZINON 500 E is used in regular spray program. Repeat as necessary. For heavy infestation use 1L and repeat as necessary.
Mealybugs, scales (crawlers), stink bugs, pear leaf miner.	1 L	Time applications according to insect incidence.
Blister mites	1.5 L + 10 L light to medium horticultural oil	Post-harvest treatment.
NOTE: 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 emulsifiable 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 emulsifiable 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 leafrollers	1 L	Apply with full coverage beginning with petal fall.
Eye-spotted bud moths	1 L	Apply with full coverage at greentip.
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.
<b>PEACHES AND APRICOTS - DO NOT APPLY TO PEACHES WITHIN 20 DAYS AND TO APRICOTS WITHIN 10 DAYS OF HARVEST.</b>		
Peach twig borer & San Jose scale	1 L + 20 L emulsifiable oil	Dormant spray with thorough coverage.
Peach twig borer	1 L + 10 L light to medium 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, clover & two spotted mites, San Jose scale crawlers	1 L	Apply in a thorough cover spray when pests are first noted; repeat as necessary.
<b>PLUMS AND PRUNES - DO NOT APPLY WITHIN 10 DAYS OF HARVEST</b>		
Peach twig borer, mealy plum aphid eggs, San Jose scale	1 L + 25 L dormant emulsifiable oil	Apply as a dormant spray.
	OR 1 L + 10 L light to medium summer oil.	Apply during late April or May.
Eye-spotted bud moth	1 L	Apply at pink stage.
Aphids (mealy plum, leaf curl plum, thistle)	1 L	Apply in a thorough cover spray; repeat as necessary.
Clover & 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.
<b>CRANBERRIES - DO NOT APPLY WITHIN 7 DAYS OF HARVEST</b>		
Black-headed fireworms, <i>Sparganothis sulfureana</i>	4.5 L in 3200 - 3500 L water per ha	Apply when insects first appear; repeat when necessary.
Cranberry fruitworm	7 L in 3200 - 3500 L water per ha	Apply when insects appear; repeat as necessary.
<b>CURRANTS AND GOOSEBERRIES - DO NOT APPLY AFTER BLOOM</b>		
Aphids, European fruit and Lecanium scale, crawlers, sawfly.	1 L	Apply immediately before first blooms open.
<b>LOGANBERRIES, RASPBERRIES AND BLACKBERRIES - DO NOT APPLY TO THESE FRUITS AFTER BLOOM.</b>		
Raspberry Crown Borer	1 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 <i>Macropsis</i> ), aphids, fruit worms, thrips and raspberry sawfly.	1 L	Apply when blossom buds separate.
<b>STRAWBERRIES - DO NOT APPLY WITHIN 5 DAYS OF HARVEST</b>		
Strawberry leafroller, spittlebugs.	1 L	Apply when blossoms show colour. Use thorough coverage. Use at the rate of 2000 L per hectare.
Aphids & two-spotted mites.	1 - 2 L	Apply as a thorough cover spray when pests first noted; repeat as necessary.
Cyclamen mites	2 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.
Omnivorous leaf tier	1.2 L	Direct spray to plant crown; agitate plant to ensure coverage. Apply again after harvest if necessary.

### VEGETABLE INSECT PESTS

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

<b>CROP</b>	<b>INTERVAL TO HARVEST IN DAYS</b>	<b>PESTS</b>	<b>QUANTITY OF DIAZINON 500 E PER HECTARE</b>
Carrots	10	Aphids	1.1 L
		Carrot rust fly (adults). Apply when insects first appear and repeat at 7 to 10 day intervals as infestations warrant. Consult local agricultural authorities for correct timing of spray applications.	1.1 L
Lettuce	10	Aphids, Dipterous leaf miners	1.1 L
Onions, Green Onions	10	Onion maggot larvae. Apply in sufficient water to drench the seed furrow at	2.2 - 4.4 L

		planting or sowing time. This rate is based on a 40 cm row spacing; for other row spacing adjust on the basis of 140 - 200 mLper1000 m of row. Use the higher rate on organic soils, the lower rate on mineral soils.	
		Onion maggot flies. Apply when flies become numerous and repeat at 7 to 10 days intervals as infestation warrants.	1.1 L
		Onion thrips	1.1 L
Parsnips	10	Aphids, flea beetles, Dipterous leafminers.	1.1 L
		Carrot Rust Fly (adults). Apply when insects first appear and repeat at 7 - 10 days intervals as infestation warrants. Consult local agricultural authorities for correct timing of spray applications.	1.1 L
Turnips, Rutabagas	14	Root maggots Apply as a drench in at least 1000 L of water per ha in a narrow band directly over the row as soon as the seedlings are up. Make a second application after thinning. Five or six weeks later, begin weekly applications using 1.1 L/ha to kill adult flies.	2.2 L
		Root maggot fly adults: Apply when insects first appear and repeat at 7 to 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.	1.1 L
		Aphids, flea beetles, Dipterous leafminers.	1.1 L

**CHRISTMAS TREE PLANTATIONS:** Balsam Gall Midge and Balsam Twig Aphid. Wear protective clothing such as gloves, head cover, coveralls and rubber boots.

**Ground Application:** Apply 1.7 L of DIAZINON 500 E in 50 - 100 L/ha of water and apply with 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.

#### MINOR USE ON CRANBERRIES

NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS:

The DIRECTIONS FOR USE for this product for the use(s) described below were developed by persons other than United Agri Products Canada Inc. and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion Program. United Agri Products Canada Inc. itself makes no representation or warranty with respect to performance (efficacy) and/or crop tolerance (phytotoxicity) claims for this product when used on the crop(s) listed below.

Accordingly, the Buyer and User assume all risks related to performance and crop tolerance arising, and agree to hold United Agri Products Canada Inc. harmless from any claims based on efficacy and/or phytotoxicity in connection with the use(s) described below.

Pest	When to Apply	Rate	Remarks
Dearness Scale <i>Rhizaspidotus dearnessi</i> (Cockerell)	Apply when crawlers are observed on cranberry uprights.  Repeat as necessary.  To Protect Pollinators: Apply in late evening/night, cover bee hives if necessary, and spot treat where possible.	4.5 L in 3200 – 3500 L of water per Hectare	Crawlers emerge over a number of weeks, only when weather is warm and dry.  Apply at weekly intervals, generally between late May and early June, to a maximum of 6 applications per year.  Contact your local extension specialist for specific pest recommendations in your area.  DO NOT apply within 7 days of harvest.

**NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS:**

The DIRECTIONS FOR USE for this product for the uses described below were developed by persons other than United Agri Products Canada Inc. United Agri Products Canada Inc. itself makes no representation or warranty with respect to performance (efficacy) and/or crop tolerance (phytotoxicity) in connection with the use described below.

Accordingly, the Buyer and User assume all risks related to performance and crop tolerance arising, and agree to hold United Agri Products Canada Inc. harmless from any claims based on efficacy and/or phytotoxicity in connection with the use described for below.

**DIRECTIONS FOR USE**

Cranberries

<b>Pest</b>	<b>When to Apply</b>	<b>Rate</b>	<b>Remarks</b>
Cranberry Tipworm ( <i>Dasineura oxycoccana</i> )	Apply at peak egg hatch. Depending on pest population may be pre or post bloom.  To Protect Pollinators: Apply in late evening/night, cover bee hives if necessary, and spot treat where possible.	7 L in 3200 – 3500 L of water per Hectare	Ground application  Maximum of 3 applications per year.  Contact your local extension specialist for specific pest recommendations in your area.  DO NOT apply within 7 days of harvest.

**TANK MIXES AND COMPATIBILITIES:**

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

Refer to provincial 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 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. Use only as recommended on the label. Do not reuse container. Do not graze or feed immature crops within 14 days of harvest.

DO NOT APPLY BY AIR.

Mixers/loaders must use a closed mechanical transfer loading system for liquid products. Mixers/loaders must wear a long-sleeved shirt and long pants, socks and shoes, and chemical resistant gloves. If a closed loading system is not available, mixers/loaders must wear chemical-resistant coveralls over a long-sleeved shirt and long pants, chemical-resistant gloves, chemical resistant footwear and a NIOSH-approved respirator.

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 clean-up 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), and chemical resistant gloves, chemical-resistant footwear and a NIOSH-approved respirator.

Avoid contamination of food, feed or food utensils.

When applying 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.

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.



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](http://www.croplife.ca).

This product contains a petroleum distillate which is moderately to highly toxic to aquatic organisms. Avoid contamination of aquatic systems during application. Do not contaminate these systems through direct application, disposal of waste or cleaning equipment.

**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.

### **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.

### **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 waterfowl are expected to inhabit the area or where there are resident populations of waterfowl. Do not exceed maximum potential 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. Highly toxic to bees exposed to direct treatment or to residues on crops.

#### **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.

**IF SWALLOWED**, Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or a doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

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

#### **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. This product contains petroleum distillates. Vomiting may cause aspiration pneumonia. Treat symptomatically.

#### **DISPOSAL**

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. 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 pest control product is to be used only in accordance with the directions on the 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.

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