

2013-0071
2013-09-26
BASE

DIAZINON 500 E

GROUP	1B	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.

This product is under a phase-out schedule for time limited use only:

Last Date of Use	Crops
December 31,2013	Foliar applications to apricot, peach, plum and prune.
December 31, 2016	Foliar applications to: cherry, apple, blackberry, carrot, Christmas tree, cranberry, currant, gooseberry, loganberry, onion (bulb and green), parsnip, pear, radish, raspberry, rutabaga, strawberry, and turnip
	Soil drench applications to: carrot and parsnip for control of carrot rust fly larvae and radish for control of root maggots.



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.**

**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: (4-205) L

FRONT

DIAZINON 500 E

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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.

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 Pralidoxime (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

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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 Diazinon 500 E using mist blower equipment to cranberry and strawberry. For tree fruit, **DO NOT** treat an area greater than 500 m² per day using hand-held sprayers.

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: handheld 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.

		Buffer Zones (metres) Required for the Protection of:				
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
Field Sprayer	Carrot, onion, parsnip		80	40	10	4
	Rutabaga, turnip		90	45	10	5
	Currant, gooseberry		85	45	10	4
	Blackberry, loganberry, raspberry, strawberry		120	65	10	5
	Cranberries		120	120	35	20
Airblast	Christmas tree plantation		45	40	15	10
	Apple/pear	Early growth stage	75	65	40	35
		Late growth stage	65	55	30	25
	Stone fruit	Early growth stage	70	60	35	30
		Late growth stage	60	50	30	20
	Blackberry, loganberry, raspberry	Early growth stage	65	55	35	25
		Late growth stage	55	45	25	15
	Currant, gooseberry	Early growth stage	60	50	25	20
		Late growth stage	50	40	20	10

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 not be released until 14 days after the last application of diazinon.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, 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/acaricides. 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 pests.
- Use tank mixtures with insecticides/acaricides from a different group that is effective on the target pest 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 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.

PEST	QUANTITY OF DIAZINON 500 E Per 1000 L of Spray Unless Otherwise Indicated	Time and Number of Applications
APPLES - DO NOT APPLY WITHIN 14 DAYS OF HARVEST.		
San Jose scale, eggs of apple aphids, eggs of European red 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.
NOTE: Russeting may occur on some varieties of apples such as Golden Delicious.		
APPLES AND PEARS - DO NOT APPLY WITHIN 14 DAYS OF HARVEST		
Pear psylla	1 L	Use in pre-pink, first, second and third cover sprays.
Eye-spotted bud moth	1 L	Apply at pink stage, also a special spray at full hatch (late July, early 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 nd 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	Apply as a dormant

	emulsifiable oil	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.
PEACHES AND APRICOTS - DO NOT APPLY TO PEACHES WITHIN 20 DAYS AND TO APRICOTS WITHIN 10 DAYS OF HARVEST.		
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.
PLUMS AND PRUNES - DO NOT APPLY WITHIN 10 DAYS OF HARVEST		
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.
CRANBERRIES - DO NOT APPLY WITHIN 7 DAYS OF HARVEST		
To minimize surface water contamination when used on cranberries, all effluent water must be impounded and not be released until 14 days after the last application of diazinon		

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.
CURRANTS AND GOOSEBERRIES - DO NOT APPLY AFTER BLOOM		
Aphids, European fruit and Lecanium scale, crawlers, sawfly.	1 L	Apply immediately before first blooms open.
LOGANBERRIES, RASPBERRIES AND BLACKBERRIES - DO NOT APPLY TO THESE FRUITS AFTER BLOOM.		
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.
STRAWBERRIES - DO NOT APPLY WITHIN 5 DAYS OF HARVEST		
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.

CHEMIGATION FOR CRANBERRIES.

Application via chemigation is preferred where the appropriate equipment/infrastructure exists. Use foliar/field sprayer where the appropriate equipment/infrastructure for chemigation application does not exist.

DIRECTIONS FOR USE:

Chemigation Application For Use on Cranberry Only. **DO NOT** apply by chemigation to other crops listed on this label. Diazinon 500 E may be applied through a solid set overhead sprinkler irrigation system that will apply water uniformly and within the confines of a closed perimeter of dykes.

DO NOT apply this product through any other type of irrigation system. Sprinkler systems that deliver a low coefficient of uniformity such as certain water drive units are not recommended. Non-uniform distribution of treated water may reduce effectiveness or result in illegal pesticide residues on the crop.

Proper calibration of the chemigation system is essential to deliver the desired rate per hectare in a uniform manner and to minimize wash-off time. If you have questions about calibration, contact the equipment manufacturer or other expert.

Equipment Requirements:

The system must contain an air gap, or approved back flow prevention device, or approved functional check valve, vacuum relief valve (including inspection port), and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow unless the water is from a man-made self-contained source on private land.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve or one-way valve to prevent the flow of fluid back toward the injection pump. A secondary containment system around the injection port area must be in place.

The pesticide injection pipeline must also contain a functional, normally closed, valve located on the intake side of the injection system to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection when the water pressure drops or water flow stops. Alternatively, in the absence of such an automatic system, the injection procedure must be continuously monitored by an operator who is able to manually shut off pesticide injection under the same circumstances.

Systems must use a metering device, such as a positive displacement injection pump (or flow meter on eductor) effectively designed and compatible with pesticides and capable of being fitted with a system interlock.

The tank holding the insecticide mixture should be free of rust, fertilizer, sediment, and foreign material, and equipped with an in-line strainer situated between the tank and the injection point.

To insure uniform mixing of the insecticide in the water line, inject the mixture in the center of the pipe diameter or just ahead of an elbow or tee in the irrigation line so the turbulence created at those points will assist in mixing. The injection point must be located after all back-flow prevention devices on the water line unless the water is from a man-made self-contained source on private land.

PRECAUTIONS:

DO NOT connect an irrigation system used for pesticide application to a public water system unless the required safety devices for public water systems are in place. Specific local regulations may apply and must be followed.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall operate the system and shall shut the system down to make necessary adjustments should the need arise.

DO NOT apply when wind speed causes non-uniform distribution.

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 prescribed American Society of Agricultural Engineers (ASAE) fine classification. Applications must be conducted WITHOUT the use of end guns.

DO NOT allow spray pattern to exceed the enclosed bed area.

Pest	Quantity of Diazinon 500E	Time and number of applications
Cranberry	To minimize surface water contamination when used on cranberries, all effluent water must be impounded and not be released until 14 days after the last application of diazinon. Do not apply within 7 days of harvest.	
Black-headed fireworms, <i>Sparganothis sulfureana</i>	4.5 L/ha	Apply when insects first appear; repeat when necessary.
Cranberry fruitworm	7 L/ha	Apply when insects appear; repeat as 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.

CROP	INTERVAL TO HARVEST IN DAYS	PESTS	QUANTITY OF DIAZINON 500 E PER HECTARE
Carrots	10	Aphids	1.1 L
		Carrot rust fly (maggot)* Apply in furrow at seeding time	2.2 L (equivalent to 8.5 mL per 100 linear meters)

			at 38 cm row spacing)
		Carrot rust fly (adults) Apply as a drench over the seedling row 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
Onions, Green Onions	10	Onion maggot larvae. Apply in sufficient water to drench the seed furrow at 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 mL per 1000 m of row. Use the higher rate on organic soils, the lower rate on mineral soils.	2.2 - 4.4 L
		Onion maggot flies. Apply when flies become numerous and repeat at 7 to 10 day 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 (maggot)* Apply in furrow at seeding time	2.2 L (equivalent to 8.5 mL per 100 linear meters at 38 cm row spacing)
		Carrot Rust Fly (adults). Apply as a drench over the seedling row 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
Radish	N/A	Root Maggots* Apply in furrow at seeding time.	4.5L (equivalent to 17.5 mL per 100

		Use with caution on sandy soils, as injury and reduced stand may result.	linear meters at 38 cm row spacing)
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

***Soil drench use permitted as of 31 December 2014 only until December 31, 2016.**

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 Loveland Products Canada Inc. and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion Program. Loveland 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 Loveland 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

<p>Dearness Scale <i>Rhizaspidotus dearnessi</i> (Cockerell)</p>	<p>Apply when crawlers are observed on cranberry uprights.</p> <p>Repeat as necessary.</p> <p>To Protect Pollinators: Apply in late evening/night, cover bee hives if necessary, and spot treat where possible.</p>	<p>4.5 L in 3200 – 3500 L of water per Hectare</p>	<p>Crawlers emerge over a number of weeks, only when weather is warm and dry.</p> <p>Apply at weekly intervals, generally between late May and early June, to a maximum of 6 applications per year.</p> <p>Contact your local extension specialist for specific pest recommendations in your area.</p> <p>DO NOT apply within 7 days of harvest.</p>
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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 Loveland Products Canada Inc. Loveland 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 Loveland 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			
Pest	When to Apply	Rate	Remarks
<p>Cranberry Tipworm (<i>Dasineura oxycoccana</i>)</p>	<p>Apply at peak egg hatch. Depending on pest population may be pre or post bloom.</p> <p>To Protect Pollinators: Apply in late evening/night, cover bee hives if necessary, and spot treat where possible.</p>	<p>7 L in 3200 – 3500 L of water per Hectare</p>	<p>Ground application</p> <p>Maximum of 3 applications per year.</p> <p>Contact your local extension specialist for specific pest recommendations in your area.</p> <p>DO NOT apply within 7 days of harvest.</p>

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.

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.