

2017-0352  
2017-08-11

BASE

**DIAZINON 500 E**

|       |           |             |
|-------|-----------|-------------|
| GROUP | <b>1B</b> | INSECTICIDE |
|-------|-----------|-------------|

**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.**

**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**

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FRONT

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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. **DO NOT** handle more than 28 kg active ingredient per person in a day. Mixers/loaders must wear chemical-resistant coveralls over a long-sleeved shirt and long pants, chemical-resistant gloves, chemical-resistant footwear. Applicators using groundboom equipment with a closed cab must wear coveralls over a long-sleeved shirt and long pants, socks and shoes. Wear chemical-resistant gloves when leaving the cab for cleanup and repair.

Open mixing/loading of emulsifiable concentrate product is prohibited.

Avoid contamination of food, feed or food utensils.

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. 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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DATAPAK

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|       |           |             |
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**DIRECTIONS FOR USE:**

DIAZINON 500 E is generally effective in controlling the insects 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. 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 coarse classification. Boom height must be 60 cm or less above the crop or ground.

**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.

**Restricted entry interval:**

DO NOT enter or allow worker re-entry into treated areas during the restricted entry intervals to conduct activities listed in the following Table.

| <b>Crop</b>                          | <b>Activity</b>             | <b>Restricted Entry Interval</b> |
|--------------------------------------|-----------------------------|----------------------------------|
| Onion, green onion                   | All activities              | 12 hours                         |
| Raspberry, blackberry and loganberry | All activities              | 12 hours                         |
| Rutabaga, turnip                     | Non-foliar contact scouting | 12 hours                         |
|                                      | Foliar contact scouting     | 25 days                          |
|                                      | Thinning and hand weeding   | 15 days                          |
|                                      | Handset irrigation          | 45 days                          |
|                                      | All other activities        | 12 hours                         |

### 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 pests in a field.
- Avoid more than the indicated number of applications 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, Loveland Products Canada Inc., 1-800-328-4678 or at [www.uap.ca](http://www.uap.ca).

### FRUIT INSECTS:

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

| <b>Drench application: Raspberry, Blackberry, Loganberry</b><br><b>Do Not</b> apply to these fruit crops during and after bloom |  |  |
|---|--|--|
| <b>PEST</b>   | <b>QUANTITY OF DIAZINON 500E Per 1000 L of spray</b> | <b>Time and number of applications</b>   |
| Raspberry crown borer   | 1L   | Use on blackberry, loganberry and raspberry is limited to control of raspberry crown borer only and application at the time when new canes reach 10 cm height. DO NOT apply more than one application per year.<br><br>Apply as a drench to the crown area using 600 mL of the mixture per plant (4000 L per hectare). |



### VEGETABLE INSECT PESTS

| <b>Drench application: Onions, green onions, turnips and rutabaga</b> |                                    |   |  |
|---|------------------------------------|---|--|
| <b>CROP</b>   | <b>Interval to harvest in days</b> | <b>PESTS</b>  | <b>QUANTITY OF DIAZINON 500E PER HECTARE</b> |
| Onions, green onions  | 10                                 | <p>Onion maggot larvae</p> <p>Use on onion is limited for control of onion maggot larvae only and application in furrow at the planting or sowing time.</p> <p>DO NOT apply more than one application per year.</p> <p>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.</p> | 2.2-4.4 L                                    |
| Turnips, Rutabagas  | 14                                 | <p>Root maggots</p> <p>Uses on rutabaga and turnip are limited for control of root maggot larvae only and application at the seedling stage.</p> <p>DO NOT apply more than two applications per year.</p> <p>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.</p>                                   | 2.2 L  |

## **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 application instructions, days to harvest, stage for crop applications.

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