

Sleeve or bottle label

GROUP	1B	INSECTICIDE
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DIAZOL 50 EC

(Diazinon) COMMERCIAL

Emulsifiable Concentrate Insecticide

Contains diazinon for insect control on certain vegetables and fruits

DANGER



POISON

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

**REGISTRATION NO. 15921
PEST CONTROL PRODUCTS ACT**

**KEEP OUT OF THE REACH OF CHILDREN
READ THE LABEL AND ATTACHED BOOKLET BEFORE USING**

NET CONTENTS: 4 Litres

ADAMA Agricultural Solutions Canada Ltd.

300 – 191 Lombard Avenue
Winnipeg, MB R3B 0X1
855-264-6262

**For emergency medical help and health/safety inquires call ProPharma at 1-877-250-9291
(24 hours a day)**

For spill, leak or fire call INFOTRAC at 1-800-535-5053 (24 hours a day)

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

Date of last Use	Crops
December 31, 2013	Foliar application to apricot, peach and plum
December 31, 2016	Foliar application to cherry, apple, blackberry, loganberry, pear, raspberry, rutabaga, strawberry and turnip

PRECAUTIONS

1. KEEP OUT OF THE REACH OF CHILDREN.
2. May be fatal if swallowed. Harmful if inhaled or absorbed through the skin.
3. Wear an approved respirator when handling large amounts.
4. Avoid contact with eyes, skin and clothing. Avoid breathing fog, dust, or spray mist.
5. Wash thoroughly after handling and before eating, drinking or smoking.

This product contains a petroleum distillate that 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.

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 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 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.

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 reflexes and loss of sphincter control.

FIRST AID

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 doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

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.

IF INHALED: Move person 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.

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

TOXICOLOGICAL INFORMATION

Diazinon is a cholinesterase inhibitor. Atropine is antidotal. Use 1 to 2 mg every 15 to 30 minutes if necessary. This product contains petroleum distillates. Vomiting may cause aspiration pneumonia. Treat symptomatically.

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.

DISPOSAL

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple-or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

For information on 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 the product.

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DIAZOL 50EC**DIRECTIONS FOR USE**

If not indicated in recommendations below, Diazol 50EC should be mixed with sufficient water to assure thorough coverage. Best control is obtained when application is made at the first sign of insects. Repeat application as necessary to maintain control unless otherwise stated.

DO NOT apply Diazol 50 EC using mistblower equipment to strawberry. For tree fruit, **DO NOT** treat an area greater than 500 m² per day using handheld sprayers.

Diazol 50 EC is an emulsifiable insecticide which requires minimum agitation during application. Diazol 50 EC is compatible with most other insecticides or fungicides.

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.

Restricted entry interval:

Crop	Restricted-entry interval (days)
Raspberry, blackberry, loganberry	6
Rutabaga, turnip	4
Apple	4
Pear	5
Cherry	4
Strawberry	4

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 1m	Greater than 1 m
Field sprayer	Rutabaga, turnip		90	45	10	5
	Blackberry, loganberry, raspberry, strawberry		120	65	10	5
Airblast	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

RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, please note that Diazol 50 EC contains a Group 1B insecticide. Any insect population may contain individuals naturally resistant to Diazol 50 EC and other Group 1B insecticides. The resistant individuals may dominate the insect population if this group of insecticides 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 resistance:

- Where possible, rotate the use of Diazol 50 EC or other Group 1B insecticides with different groups that control the same pests in a field.
- Use tank mixtures with insecticides from a different group when such use is permitted.
- Insecticide 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 ADAMA at 1 855-264-6262 (collect).

USE RESTRICTIONS

1. Do not spray animals or humans.
2. Remove all animals, fish and birds before spraying; do not return them for at least 4 hours after treatment.
3. Do not store near food or feed.
4. Toxic to fish and wildlife. Highly toxic to bees exposed to direct treatment or to residues on crops. Birds feeding in treated areas may be killed.
5. Do not contaminate any body of water.

FRUITS

APPLES - Apple Aphid (eggs), Brown Mite (eggs), European Red Mite (eggs), San Jose Scale: Use 500 mL with 20 litres dormant emulsive oil per 1000 litres of water. Apply for full coverage as a dormant spray. **Fruit tree Leafroller, Green Fruitworm:** Use 1.0 litre in 1000 litres of water. Apply at pink stage. Do not apply within 14 days of harvest. Russetting of certain varieties of apples may occur.

PEARS - San Jose Scale: Use 1.0 litre with 20 litres dormant emulsive oil in 1000 litres of water. Apply as a dormant spray for full coverage.

APPLES, PEARS - Codling Moth: Use 1.0 litre in 1000 litres of water. Apply in cover sprays as needed. Second brood may require additional treatment. Do not apply within 14 days of harvest. Russetting of certain varieties of apples may occur. **Apple Maggot:** Use 1.0 litre in 1000 litres of water. Use at least 3 cover sprays, 10 days apart, when flies are active and laying. Do not apply within 14 days of harvest. Russetting of certain varieties of apples may occur. **Pear Psylla:** Use 1.0 litre in 1000 litres of water. Apply in pre-pink, first, second and third cover sprays. Do not apply within 14 days of harvest. Russetting of certain varieties of apples and pears may occur. **Eyespotted Bud Moth:** Use 1.0 litre in 1000 litres of water. Apply at pink stage and at full hatch in late July or early August. Do not apply within 14 days of harvest. Russetting of certain varieties of apples may occur. **Apple Aphid, Rosy Apple Aphid, Woolly Apple Aphid:** Use 0.5-1.0 litre in 1000 litres of water. Apply as thorough cover spray. Repeat as necessary. Do not apply within 14 days of harvest. Russetting of certain varieties of apples may occur. **Mealybugs, Scale Insects (crawlers), Stinkbugs:** Use 1.0 litre in 1000 litres of water. Apply as infestation occurs. Repeat as necessary. Do not apply within 14 days of harvest. Russetting of certain varieties of apples may occur. **Tentiform Leafminers:** Use 1.0 litre in 1000 litres of water. Apply for full coverage in calyx and first cover spray. Include in later cover sprays if second and third generations develop. Do not apply within 14 days of harvest. Russetting of certain varieties of apples may occur.

CHERRIES - Cherry Fruit Fly: Use 1.0 litre in 1000 litres of water. Apply when flies emerge. Repeat 2 to 3 times at 10-day intervals. Do not apply within 10 days of harvest. **Black Cherry Aphid:** Use 1.0 litre in 1000 litres of water. Apply when insects first appear. Repeat after 10 days. Do not apply within 10 days of harvest. **San Jose Scale (crawlers):** Use 1.0 litre in 1000 litres of water. Apply when crawlers first appear. Do not apply within 10 days of harvest. **San Jose Scale:** Use 1.25 litres with 30 litres dormant emulsive oil in 1000 litres of water. Apply for full coverage as a dormant spray. **Fruit Tree Leafroller:** Use 1.0 litre in 1000 litres of water. Apply for full coverage at petal fall. Do not apply within 10 days of harvest. **Eyespotted Bud Moth:** Use 1.0 litre in 1000 litres of water. Apply for full coverage at green tip. Do not apply within 10 days of harvest.

STRAWBERRIES - Aphids: Use 1.0 to 2.0 litres in 1000 litres of water. Apply when pests first appear. Repeat as necessary. Do not apply within 5 days of harvest. **Omnivorous Leaf-tier:** Use 2.25 litres in 1000 litres of water. Direct spray to plant crown; agitate plant to ensure coverage. Apply again after harvest if necessary. Do not apply within 5 days of harvest. **Strawberry Leafroller, Meadow Spittlebug:** Use 2.25 litres in 2000 litres of water per hectare. Apply when blossoms show colour. Do not apply within 5 days of harvest.

BLACKBERRIES, LOGANBERRIES, RASPBERRIES - Raspberry Crown Borer: Use 4.5 litres in 4000 litres of water per hectare. Drench crown area using 0.6 litre of mix per plant as new canes reach 10 cm height. Do not apply after bloom. Do not spray during bloom to avoid injury to pollinating insects. **Aphids, Fruitworms, Leafhoppers, Raspberry Sawfly, Thrips:** Use 1.0 litre in 1000 litres of water. Apply when blossom bud separates. Do not apply after bloom. Do not spray during bloom to avoid injury to pollinating insects.

VEGETABLES

RUTABAGA, TURNIPS - Root Maggots: SEEDING TREATMENT: Use 2.25 litres in 1000 litres of water per hectare. Apply as a drench in a narrow band directly over row when seedlings are up. Make a second application as a drench after thinning or make weekly applications as a drench 5 to 6 weeks later using 1.1 litres per hectare to kill adult flies. Drench thoroughly plant and surrounding soil. Direct spray to base of plant. Consult local agricultural authorities concerning the need for and timing of additional applications. Do not apply within 14 days of harvest. **Aphids, Dipterous Leafminers, Flea Beetles:** Use 1.1 litres per hectare. Apply in sufficient water to ensure through coverage. Repeat as necessary. Do not apply within 14 days of harvest.

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