

GROUP

1B

INSECTICIDE

**DZN<sup>®</sup> 600EW INSECTICIDE**

AGRICULTURAL

FORMULATION OF DIAZINON

Water-Based Concentrate for: control of insect pests on fruit, hops, vegetables, ornamentals and Christmas tree plantations.

**GUARANTEE:**

Diazinon.....600 g/L

Warning, contains the allergen soy.

Contains 1,2-benzisothiazolin-3-one at 0.007% as a preservative.

**READ THE LABEL AND PAMPHLET BEFORE USING**

CAUTION



POISON

REGISTRATION NO.: **26146**  
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **4 L to 1000 L**

**Syngenta Crop Protection Canada, Inc.**  
140 Research Lane, Research Park  
Guelph, Ontario N1G 4Z3

Label

## 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.

## FIRST AID

**IN CASE OF POISONING**, contact a physician or a poison control centre **IMMEDIATELY**. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**If swallowed**, drink 1 or 2 glasses of water and induce vomiting by touching the back of the throat with a finger. Repeat until vomit fluid is clear. Do not give anything by mouth or induce vomiting to an unconscious or convulsive person. Artificial respiration may be required. Obtain prompt medical attention or contact a poison control centre.

**If inhaled**, move to fresh air, change clothing and wash thoroughly. If not breathing, administer artificial respiration and seek medical attention or contact a poison control centre.

**If in eyes**, flush repeatedly with large amounts of clean water for at least 15 minutes. If irritation persists seek medical attention or contact a poison control centre.

**If on skin**, remove contaminated clothing immediately. Wash skin thoroughly with soap and water. If irritation occurs, obtain medical attention or contact a poison control centre.

## TOXICOLOGICAL INFORMATION

Diazinon, an organophosphorus insecticide, is a cholinesterase inhibitor. If symptoms of cholinesterase inhibition are present, atropine sulphate by injection is antidotal. Pralidoxime (2-PAM) may also be administered, but only in conjunction with atropine.

## PRECAUTIONS

**KEEP OUT OF REACH OF CHILDREN AND ANIMALS.** Do not use on humans, pets, livestock. Handle and apply only as recommended on this label. Harmful if swallowed, inhaled or absorbed through skin. Causes moderate eye irritation. Do not wear contacts while using. Avoid contact with skin and clothing, and avoid inhalation of spray mist or vapours. Wear coveralls over work clothes and chemical resistant gloves during mixing, loading application, irrigation, clean-up and repair activities. Wear a NIOSH approved respirator and goggles during mixing and loading activities. Wash gloves thoroughly with soap and water before removing them during, or following any operation. Wash hands thoroughly with soap and water after handling product and before

eating, drinking, chewing gum, smoking or using the toilet. Do not eat drink or smoke during mixing, loading or spraying. Remove contaminated clothing immediately after use. Store and wash contaminated clothing separately from household laundry before reuse. Wash thoroughly with soap and water after handling contaminated clothing. Do not contaminate food, food utensils or livestock feed. For agricultural and forestry applications, do not re-enter treated areas during the restricted entry interval of 24 hours. Early entry into treated areas is permitted, provided that the worker wear the following personal protective equipment: coveralls, waterproof gloves, and shoes plus socks. Do not re-use container.

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., contact 1-866-375-4648 or [www.croplife.ca](http://www.croplife.ca).

## **DO NOT APPLY BY AIR**

### **Fish and Wildlife Precautions:**

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 in 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 permitted 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.

## **STORAGE**

Store product in the original container. Keep out of the reach of children, unauthorised persons and animals. Do not contaminate water, food or feed by storage. If freezing occurs, place the container in a warm room (18°C or above) and allow product to thaw. Roll or shake container frequently until thawing is complete.

## **FOR DISPOSAL OF UNUSED, UNWANTED PRODUCT**

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.

### **CONTAINER DISPOSAL:**

#### **For recyclable containers**

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 refillable containers**

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not use this container for any other purpose.

***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING  
CALL 1-800-327-8633 (FASTMED)***

® DZN is a registered trademark of a Syngenta group company.

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CALL 1-800-327-8633 (FASTMED)***

## **DIRECTIONS FOR USE**

DZN 600 EW INSECTICIDE is a water-based concentrate which, when diluted with water according to directions, provides selective insect control in:

### **FRUIT:**

Apples, pears, cherries, peaches, apricots, plums, prunes, cranberries, currants, gooseberries, grapes, loganberries, raspberries, blackberries, and strawberries.

### **HOPS**

### **VEGETABLES AND FIELD CROPS:**

Beans, beets, broccoli, cabbage, cantaloupes, carrots, cauliflower, collards, cucumbers, kale, kohlrabi, lettuce, lima beans, mushrooms, muskmelons, onions, parsley, parsnips, peppers, potatoes, radishes, salsify, spinach, squash, Swiss chard, tomatoes, turnips, rutabagas and watermelon.

### **CHRISTMAS TREE PLANTATIONS**

### **ORNAMENTAL PLANTS**

### **INSECTS CONTROLLED AND TIMING OF APPLICATION:**

See specific insects controlled and timing of application on the attached pages as per crop category. Application should be repeated only as directed to maintain control.



**TANK MIXES AND COMPATIBILITIES:**

**Note: Do not mix DZN 600 EW INSECTICIDE with any formulation of Captan because crop injury may occur.**

- Refer to provincial production 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 application.

**FRUIT INSECTS:**

For control of insects and mites on fruit, apply to obtain thorough coverage in accordance with the directions in the following tables.

PESTS	QUANTITY OF DZN 600 EW INSECTICIDE IN 1000 L OF WATER (unless otherwise stated)	TIME AND NUMBER OF APPLICATIONS
<b>APPLES</b> - Do not apply within 14 days of harvest Do not apply after petal fall		
San Jose scale, eggs of apple aphids, eggs of European red mite and brown mite	415 mL + 20 L dormant emulsive oil	Dormant application with full coverage.
Fruit-tree leafroller	830 mL	Apply with full coverage in 3-8 cover sprays beginning in pink stage.
Green fruitworm	830 mL	Apply at pink stage.
<b>APPLES AND PEARS</b> - Do not apply within 14 days of harvest Do not apply on Apples after petal fall		
Pear psylla	830 mL	Use in pre-pink, first, second and third cover sprays.
Eye-spotted bud moth	830 mL	Apply at pink stage, also a special spray at full hatch (late July, early August).
Tentiform leaf miner	830 mL	Apply with full coverage in calyx and first cover spray. Include in later cover sprays if 2nd and 3rd generations develop.
Codling moth	830 mL	Apply in all cover (summer) sprays and in special sprays against 2nd brood.
Apple maggot	830 mL	Include at least 3 cover sprays, 10 days apart, when flies are active and laying eggs.

<b>APPLES AND PEARS</b> - Do not apply within 14 days of harvest Do not apply on Apples after petal fall		
Aphids (woolly, rosy apple)	415 mL - 830 mL	Apply in a thorough cover spray; repeat as necessary.
Mites	830 mL	Apply when mites first appear; mites will be suppressed if DZN 600 EW INSECTICIDE is used in regular spray program. For heavy infestation, repeat as necessary
Mealybugs, scales (crawlers), stink bugs, pear leaf miner	830 mL	Time applications according to insect incidence.
Blister mites	1.25 L + 10 L light to medium horticultural oil	Post-harvest treatment.
NOTE: Slight russetting may occur on some varieties of apples such as Golden Delicious.		
<b>PEARS</b> - Do not apply within 14 days of harvest		
San Jose scale	830 mL + 20 L dormant emulsive oil	Apply as a dormant application with full coverage.
<b>CHERRIES</b> - Do not apply within 10 days of harvest		
San Jose scale	1.04 L + 30 L dormant emulsive oil	Apply with thorough coverage as a dormant spray.
San Jose scale crawlers	830 mL	Apply at pre-pink stage or when crawlers first appear.
Fruit-tree leafroller Eye-spotted bud moth	830 mL	Apply with full coverage beginning with petal fall.
Cherry fruit flies	830 mL	Apply when flies begin to emerge; repeat 2 or 3 times at 10-day intervals.
Black cherry aphids, mites	830 mL	Spray on first appearance; repeat after 10 days.
Rust mites	830 mL	Spray thoroughly after harvest.
<b>PEACHES AND APRICOTS</b> - Do not apply to peaches within 20 days and to apricots within 10 days of harvest		
Peach twig borer and San Jose scale	830 mL + 20 L dormant emulsive oil	Dormant spray with thorough coverage.
Peach twig borer	830 mL + 10 L light medium summer oil	Apply at petal fall with thorough coverage.
	830 mL	For control on peaches in May and June apply as a full cover spray.
Aphids, clover and two-spotted mites, San Jose scale crawlers	830 mL	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	830 mL + 25 L dormant emulsive oil OR	Apply as a dormant spray.
	830 mL + 10 L light to medium flowable summer oil	Apply during late April or May.
Bud moth	830 mL	Apply at pink stage.
Aphids (mealy plum, leaf curl plum, thistle)	830 mL	Apply in a thorough cover spray; repeat as necessary.
Clover and European red mites	830 mL	Apply when mites first appear; repeat as necessary.
Apple maggot	830 mL	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 fireworm, ( <i>Rhopobota Naevana</i> )	3.75 L in 3200 - 3500 L water <sup>1</sup> per hectare	Apply when insects first appear; repeat when necessary.
Cranberry fruitworm	5.8 L in 3200 - 3500 L water <sup>1</sup> per hectare	Apply when insects appear; repeat as necessary.
<b>CURRANTS AND GOOSEBERRIES - Do not apply after bloom</b>		
Aphids, Lecanium scale crawlers, sawfly	830 mL	Apply immediately before first blooms open.
<b>GRAPES - Do not apply within 16 days of harvest</b>		
Leafhoppers, grape berry moth, grape leaf folder, mealybugs	830 mL or 2.3 – 2.9 L product/hectare	When insects first appear; repeat when necessary.
Pacific mites	1.6 – 2.1 L	When mites first appear; repeat when necessary.
<b>LOGANBERRIES, RASPBERRIES AND BLACKBERRIES - Do not apply to these fruits after bloom</b>		
Raspberry crown borer	830 mL	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, fruitworm, thrips and raspberry sawfly	830 mL	Apply when blossom buds separate.
<b>STRAWBERRIES - Do not apply within 5 days of harvest</b>		
Strawberry leafroller, spittlebugs	830 mL	Apply when blossoms show colour. Use thorough coverage. Use at the rate of 2000 L per hectare.
Aphids and two-spotted mites	830 mL - 1.7 L	Apply as a thorough cover spray when pests are first noted; repeat as necessary.
Cyclamen mites	1.7 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.

1. Note: application rates for cranberries are given on the basis of applying product in 3200 – 3500 L water per hectare.

### INSECTS ON HOPS:

#### APHIDS AND MITES

Apply 1.8 L of DZN 600 EW INSECTICIDE per hectare in sufficient water to achieve thorough coverage when insects first appear; repeat as necessary. Do not apply to hops within 14 days of harvest.

### VEGETABLE INSECT PESTS:

For control of the insects listed below, apply the specified amount of DZN 600 EW INSECTICIDE 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 DZN 600 EW INSECTICIDE closer to harvest than the time interval shown in the table.

CROP	INTERVAL TO HARVEST IN DAYS	PESTS	QUANTITY OF DZN 600 EW INSECTICIDE PER HECTARE
Beans	7	Aphids, Mexican bean beetles	915 mL
Beets	14	Aphids, Dipterous leaf miners	915 mL
Broccoli	5	Aphids, diamondback moths, cabbageworm	915 mL
Cabbage	7	Aphids, diamondback moths, cabbageworm	915 mL
Cantaloupes	10	Aphids, cucumber beetles, thrips, leafhoppers, mites	915 mL to 1.7 L
Carrots	10	Aphids	915 mL
	10	Carrot rust fly (adults). Apply when insects first appear and repeat at 7 - 10-day intervals as infestation warrants. Consult local agricultural authorities for correct timing of spray application.	915 mL
Cauliflower	5	Aphids, diamondback moths, cabbageworm	915 mL
Collards	7	Aphids, diamondback moths, cabbageworm	915 mL
Cucumbers	7	Cucumber beetles, aphids, mites, thrips	1.8 L
Kale and Kohlrabi	7	Aphids, diamondback moths, cabbageworm	915 mL
Lettuce	10	Aphids, Dipterous leaf miners	915 mL
Lima Beans	3	Black bean aphids, Mexican bean beetles, Dipterous leaf miners, leafhoppers, mites	915 mL

CROP	INTERVAL TO HARVEST IN DAYS	PESTS	QUANTITY OF DZN 600 EW INSECTICIDE PER HECTARE
Mushrooms		*Mushroom flies (Phorids and Sciarids) Use 830 mL to 1.7 L of DZN 600 EW INSECTICIDE to 100 L of water (0.5% to 1% actual concentration) and spray on the outside and inside walls and ventilators of mushroom houses after the compost in the beds has been pasteurized by heating. *Do not spray on the compost in the beds, or after spawning. To treat the wooden sides of the beds, posts, doors and door frames after pasteurizing, add 83.3 mL of DZN 600 EW INSECTICIDE to 10 L water and apply with a brush. Repeat these applications when necessary. *Do not allow the material to get onto the casing soil or the mushrooms.	
Muskmelons	10	Aphids, cucumber beetles, thrips, leafhoppers, mites	915 mL to 1.7 L
Onions	10	Onion thrips	915 mL
	10	Onion maggot flies. Apply when flies become numerous and repeat at 7 to 10-day intervals as infestation warrants.	915 mL
Parsley	14	Aphids, cabbageworms, diamondback moths	915 mL
Parsnips	10	Aphids, flea beetles, Dipterous leaf miners	915 mL
	10	Carrot rust fly (adults). Apply when insects first appear and repeat at 7 - 10-day intervals as infestation warrants. Consult local agricultural authorities for correct timing of spray applications.	915 mL
Peppers	5	Aphids	460 mL to 915 mL
Greenhouse Peppers	5	Aphids. Use conventional high volume power sprayers. Make applications monthly or when aphids reach treatment levels. (Rates are equivalent to 192 mL in 250 L of water over 4000 m <sup>2</sup> )	480 mL per 625 L of water
Potatoes	14	Aphids, flea beetles, Colorado potato beetles, leafhoppers, Dipterous leaf miners	915 mL
Radishes and Salsify	10	Aphids, flea beetles, Dipterous leaf miners	915 mL
Spinach	10	Aphids, Dipterous leaf miners	915 mL
Squash	3	Aphids, cucumber beetles, thrips, leafhoppers, mites	915 mL to 1.7 L
Swiss Chard	14	Aphids, diamondback moths, imported cabbage moth	915 mL
Tomatoes	1	Aphids, Dipterous leaf miners, vinegar flies ( <i>Drosophila</i> spp). For leaf miners and vinegar flies applications at weekly intervals will generally be required.	915 mL to 1.4 L

CROP	INTERVAL TO HARVEST IN DAYS	PESTS	QUANTITY OF DZN 600 EW INSECTICIDE PER HECTARE
Turnips	14	Aphids, flea beetles, Dipterous leaf miners	915 mL
Rutabagas	14	Root maggot fly adults: Apply when insects first appear and repeat at 7 - 10-day intervals as infestations warrant. Spray the soil surface and plants in order to kill. Consult local agricultural authorities for correct timing of spray applications.	915 mL
Watermelon	10	Aphids, cucumber beetles, thrips, leafhoppers, mites	915 mL to 1.4 L

### INSECTS ON ORNAMENTALS:

Apply DZN 600 EW INSECTICIDE thoroughly at rates given below when insects first appear. Repeat as necessary.

ORNAMENTAL PLANTS	PESTS	QUANTITY OF DZN 600 EW INSECTICIDE IN 1000 L OF WATER
Arbor vitae	Leaf miners	830 mL
	Bagworms, scale insect (crawlers)	1.25 L
Aralia	Privet mites	830 mL
Azalea	Privet mites, leaf miners	830 mL
Birch	Leaf miners	830 mL
Boxwood	Leaf miners	830 mL
Carnations	Aphids, mites, thrips, caterpillars and leaf miners	1.25 L
Chrysanthemums	Aphids, mites, thrips, caterpillars and leaf miners	830 mL
Holly	Leaf miners	830 mL
	Pulvinaria and Coccus scales	3.1 L
	Aphids, bud moths - <b>Note:</b> apply when new growth is about 0.6 cm long and before blossoms open.	1.7 L
Ivy	Privet mites	830 mL
Juniper	Bagworms, scale insects (crawlers), European pine shoot moth	1.25 L
Oak	Leaf miners	830 mL
Pines	Scale insects (crawlers), European pine shoot moth	1.25 L
Taxus (Yew)	Scale insects (crawlers), European pine shoot moth	1.25 L

## **INSECT CONTROL IN CHRISTMAS TREE PLANTATIONS:**

### **BALSAM GALL MIDGE AND BALSAM TWIG APHID**

Wear protective clothing, including gloves, head cover, coveralls and rubber boots. Apply DZN 600 EW INSECTICIDE by mist blower at 1.4 L in 50 - 100 L of water per ha., to ensure thorough coverage of Christmas trees. Before spraying with DZN 600 EW INSECTICIDE, spray trees in a half-hectare area with 50 L of water only, to confirm that coverage is adequate.

### **Resistance-Management Recommendations**

For resistance management, please note that DZN 600 EW Insecticide contains a Group 1B insecticide. Any insect population may contain individuals naturally resistant to DZN 600 EW Insecticide and other Group 1B insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same field. 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 DZN 600 EW Insecticide or other Group 1B insecticides with different groups that control the same pests in a field.

Avoid application of more than the maximum number listed in the label and consecutive sprays of DZN 600 EW Insecticide or other insecticides in the same group in a season.

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 or to report suspected resistance, contact company representatives at 1-87S-YNGENTA (1-877-964-3682) or at [www.syngenta.ca](http://www.syngenta.ca).

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