

Nexter - Booklet

|       |    |             |
|-------|----|-------------|
| GROUP | 21 | INSECTICIDE |
|-------|----|-------------|

**NEXTER SC® Miticide/Insecticide**

For control of listed mites in apples, cherries (sweet and tart), grapes, pears, strawberries and peach/nectarine orchards, listed mites as a post-harvest application on raspberries, and pear psylla in pears. Peaches and nectarines are registered in Ontario only.

**COMMERCIAL  
SOLUBLE CONCENTRATE**

**READ THE LABEL AND BROCHURE BEFORE USING.  
KEEP OUT OF REACH OF CHILDREN.**

**ACTIVE INGREDIENT:** Pyridaben ..... 450 g/L

**Contains 1,2-benzisothiazolin-3-one at 0.0193% as a preservative.**

**REGISTRATION NO.: 33433  
PEST CONTROL PRODUCTS ACT**



**WARNING POISON  
EYE AND SKIN IRRITANT  
POTENTIAL SKIN SENSITIZER**

Warning, contains the allergen sulfite

**NET CONTENTS:** 0.5 L - Bulk



Canyon Group L.L.C.  
c/o Gowan Company, L.L.C.  
P.O. Box 5569  
Yuma, AZ 85366-5569

1-800-960-4318

**NEXTER®** is a registered trademark of Nissan Chemical Industries Limited used under license by Gowan Company, L.L.C.

## GENERAL INFORMATION

This container contains **NEXTER SC Miticide/Insecticide** to control mite pests, including European red mite, apple rust mite, McDaniel spider mite, pear rust mite, twospotted spider mite, and pear psylla, when used at recommended rates.

**NEXTER SC Miticide/Insecticide** works primarily through contact action, so good spray coverage is necessary.

**NEXTER SC Miticide/Insecticide** provides excellent knockdown and residual control.

## SAFETY AND HANDLING

### PRECAUTIONS

#### KEEP OUT OF REACH OF CHILDREN.

1. Harmful or fatal if swallowed.
2. Harmful if inhaled. Avoid inhaling vapour or spray mist.
3. May irritate eyes and skin. Avoid contact with eyes, skin and clothing.
4. Potential skin sensitizer.
5. Wash thoroughly after handling and before eating, drinking or smoking.
6. Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. In addition, during airblast application, wear protective eyewear (goggles or face shield) and chemical-resistant headgear. A chemical-resistant headgear includes chemical-resistant Sou'Wester hat, chemical-resistant rain hat or large brimmed waterproof hat and hood with sufficient neck protection. Gloves, protective eyewear and a hat are not required during application within a closed cab.
7. DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) specified in the following table. Employers should make every effort to schedule pesticide applications and worker tasks in order to avoid early entry of workers into treated areas. Under exceptional circumstances, certified pesticide applicators may enter treated areas for short-term tasks not involving hand labour if at least 4 hours have passed since application and a long-sleeved shirt, long pants, chemical-resistant footwear, socks, goggles, chemical-resistant gloves and a respirator with a NIOSH- approved organic-vapour-removing cartridge with a prefilter approved for pesticides OR a NIOSH-approved canister approved for pesticides is worn. Time spent in the treated area cannot exceed 1 hour in a 24-hour period or until restricted entry interval is over.

| Crop            | Postapplication Activities                             | Restricted Entry Intervals |
|-----------------|--------------------------------------------------------|----------------------------|
| Grapes          | Girdling, turning                                      | 54 days                    |
|                 | Tying, training, hand harvesting, leaf pulling by hand | 30 days                    |
|                 | Mechanical harvesting <sup>1</sup>                     | 25 days                    |
|                 | All other activities                                   | 24 hours                   |
| All other crops | All activities                                         | 24 hours                   |

<sup>1</sup>Mechanical harvesting assumes no contact with treated foliage or crop.

8. If clothing becomes contaminated, remove and wash separately from household laundry before reuse.
9. Clean spray equipment thoroughly after use.

10. Do not contaminate domestic or irrigation water, lakes, streams or ponds by the cleaning of equipment or the disposal of wastes.
11. Do not use in residential areas. Residential areas are defined as sites where bystanders including children may be potentially exposed during or after spraying. This includes around homes, school, parks, playgrounds, playing fields, public buildings or any other areas where the general public including children could be exposed.
12. Hazardous to humans and domestic animals. Keep out of reach of children and pets.
13. This product is only to be used by individuals holding an appropriate pesticide applicator certificate or license recognized by the provincial/territorial pesticide regulatory agency where the pesticide application is to occur.
14. This product is highly toxic to bees exposed to direct treatment or residues on crops. Do not apply or allow **NEXTER SC Miticide/Insecticide** to drift to crops or weeds on which bees are actively foraging. Do not allow spray to drift towards beehives.
15. Apply only when the potential for drift beyond the area to be treated is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.

#### **ENVIRONMENTAL PRECAUTIONS:**

TOXIC to bees. Bees may be exposed through direct spray, spray drift, and residues on leaves, pollen and nectar in flowering crops and weeds. Minimize spray drift to reduce harmful effects on bees in habitats close to the application site. Avoid applications when bees are foraging in the treatment area in ground cover containing blooming weeds. To further minimize exposure to pollinators, refer to the complete guidance "Protecting Pollinators during Pesticide Spraying – Best Management Practices" on the Health Canada website ([www.healthcanada.gc.ca/pollinators](http://www.healthcanada.gc.ca/pollinators)). Follow crop specific directions for application timing.

For applications on crops that are highly attractive to pollinators (apples, raspberries, cherries, nectarines, peaches, and pears), and crops where managed bees are present: DO NOT apply during the crop blooming period.

For applications to grapes and strawberries: Avoid application during the crop blooming period. If applications must be made during the crop blooming period, restrict applications to evening when most bees are not foraging.

TOXIC to beneficial arthropods. Minimize spray drift to reduce harmful effects on beneficial arthropods in habitats next to the application site such as hedgerows and woodland.

TOXIC to birds.

TOXIC to small wild mammals.

TOXIC to aquatic organisms. Observe spray buffer zones specified under DIRECTIONS FOR USE.

TOXIC to non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE.

## FIRST AID

**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. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

**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.

**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.

**In case of emergency involving a major spill, leak or fire call Chemtrec® at 1-800-424-9300. For medical emergencies call 1-888-478-0798**

## TOXICOLOGICAL INFORMATION

The patient should be treated symptomatically.

## STORAGE

1. Store in original tightly closed container.
2. Do not ship or store near food, feed, seed and fertilizers.
3. Store in cool, dry, locked, well-ventilated area without floor drain.
4. To prevent contamination store this product away from food or feed.

## DISPOSAL

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.

If this is a recyclable container:

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.

If this is a returnable container:

DO NOT reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

If this is refillable container:

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 reuse this container for any other purpose.

## **DIRECTIONS FOR USE**

Please refer to and retain this booklet for complete directions.

### **MIXING**

1. Fill the spray tank one-half full of water and start agitation.
2. Add NEXTER SC Miticide/Insecticide to the tank.
3. Continue agitation while filling tank to the desired spray volume.
4. Dilute **NEXTER SC Miticide/Insecticide** in enough water to provide thorough spray coverage. If foaming occurs, an anti-foaming agent may be used.

It is recommended that a small number of plants be treated prior to application to the entire planting. Nexter SC miticide/insecticide may leave visible residue when used at high rates.

### **TANK MIXING**

This product may be tank mixed with a fertilizer, a supplement, or with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact Gowan Company at 1-800-960-4318 for information before applying any tank mix that is not specifically recommended on this label.

## RESTRICTIONS AND LIMITATIONS

Do not apply this product through any type of irrigation system.

### DO NOT APPLY THIS PRODUCT BY AIR

Do not apply directly to aquatic systems. Aquatic systems include all permanent lentic (standing) and lotic (flowing) water bodies. This product is toxic to aquatic invertebrates, fish and aquatic plants.

## TIMING

**NEXTER SC Miticide/Insecticide** should be applied when populations are building and before serious crop injury occurs. Consult provincial guidelines and local extension experts for treatment threshold and advice. Mites cause the most economic damage one week to one month following bloom. **NEXTER SC Miticide/Insecticide** provides excellent knockdown and residual control. A good performance evaluation can be made 7-10 days after treatment.

## CROPS

### Apples

### Cherries (sweet and tart)

### Peaches/Nectarines (Ontario only)

### Strawberries

### Grapes

Apply to grapes when immature motile stages are present for best control.

### Pears

Apply when pear psylla or mite numbers reach significant levels. Second application to pears for mites and pear psylla can be made 30 days after the first application.

### Raspberries

Apply to raspberries after harvest when mites appear.

The use of **NEXTER SC Miticide/Insecticide** is compatible with the goal of preservation of predatory mites. This product is easiest on predatory mites when applied late spring to early summer before numbers of beneficial mites have peaked. **NEXTER SC Miticide/Insecticide** is harmful to certain other beneficials (i.e. beneficial insects).

## RECOMMENDED APPLICATION RATES

Table 1. NEXTER SC Miticide/Insecticide Application Rate Table

| Mites Controlled                                    | Rate*                      |
|-----------------------------------------------------|----------------------------|
| European Red Mite ( <i>Panonychus ulmi</i> )        | 500 ml/ha<br>(225 g ai/ha) |
| Apple Rust Mite<br>( <i>Aculus schlechtendali</i> ) |                            |
| Pear Rust Mite<br>( <i>Epirimerus pyri</i> )        |                            |

|                                                          |                                                        |
|----------------------------------------------------------|--------------------------------------------------------|
| Twospotted Spider Mite<br>( <i>Tetranychus urticae</i> ) | 500 ml/ha**<br>(225 g ai/ha)                           |
| McDaniel Spider Mite<br>( <i>Tetranychus mcdanieli</i> ) | or                                                     |
|                                                          | 1000 ml/ha ***<br>(450 g ai/ha)                        |
| Pear Psylla<br>( <i>Cacopsylla pyricola</i> )            | 1000 ml/ha – 1200 ml/ha<br>(450 g ai/ha – 540 g ai/ha) |

\* Based on water volume (3000 L/ha).

\*\* Good control will be achieved at or below the mite action threshold.

\*\*\* For faster knockdown and control above mite action thresholds late season.

**NOTE: NEXTER SC Miticide/Insecticide** controls nymph and larva stage of two-spotted spider and McDaniel mites and all motile stages of European red, apple rust mite and pear rust mite. This product is not an ovicide.

If product is applied as a concentrate spray, do not apply at rates less than 330 ml/ha (148.5 g ai/ha) for European red, apple rust mite, pear rust mite, two-spotted and McDaniel spider mite or 650 ml/ha (292.5 g ai/ha) for two-spotted and McDaniel spider mite above action threshold level.

Do not use less than 1000 L/ha water volume. For foliar application using ground application equipment only.

### Crop Recommendation Table

| Crop                                       | Application to Harvest Interval (Days) | Maximum Number of Applications/Year | Minimum Application Interval (Days) | Maximum Product Used (L/ha)/ Year on the Same Orchard |
|--------------------------------------------|----------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------------------------|
| Apples                                     | 25                                     | 2                                   | 30                                  | 2.0                                                   |
| Cherries (sweet and tart)*                 | 7                                      | 1                                   | NA                                  | 1.0                                                   |
| Grapes                                     | 25                                     | 1                                   | NA                                  | 1.0                                                   |
| Peaches/Nectarines (Ontario only)          | 14                                     | 1                                   | NA                                  | 1.0                                                   |
| Pears                                      | 25                                     | 2                                   | 30                                  | 2.4                                                   |
| Raspberries: Post-harvest application only | N/A                                    | 2                                   | 30                                  | 2.0                                                   |
| Strawberries                               | 10                                     | 2                                   | 15                                  | 2.0                                                   |

\*For optimal control, apply product in sufficient water for good leaf coverage (3000 L/ha).

**DO NOT** apply by hand-held mistblower or hand-held fogger.

**DO NOT** apply by aerial application equipment.

Field sprayer application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply when wind speed is greater than 8 km/h at the site of application. **DO NOT** apply with spray droplets smaller than the American Society of

Agricultural Engineers (ASAE S572.1) medium classification. Boom height must be 60 cm or less above the crop or ground.

**Air-induction nozzles must be used for the ground application of this product.**

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.

**Spray Buffer zones:**

Spot treatments using hand-held equipment **DO NOT** require a spray buffer zone.

The spray buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrub-lands), 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                     |                   | Spray Buffer Zones (metres) Required for the Protection |                  |                                     |                  | Terrestrial habitat |
|-----------------------|--------------------------|-------------------|---------------------------------------------------------|------------------|-------------------------------------|------------------|---------------------|
|                       |                          |                   | Freshwater Habitat of Depths:                           |                  | Estuarine/Marine Habitat of Depths: |                  |                     |
|                       |                          |                   | Less than 1 m                                           | Greater than 1 m | Less than 1 m                       | Greater than 1 m |                     |
| Groundboom            | Strawberry, raspberry    |                   | 20                                                      | 2                | 1                                   | 1                | 1                   |
| Airblast              | Pear, apple, raspberry   | Late growth stage | 65                                                      | 40               | 30                                  | 20               | 1                   |
|                       | Cherry, peach, nectarine | Late growth stage | 60                                                      | 35               | 30                                  | 20               | 0                   |

When tank mixes are permitted, consult the labels of the tank-mix partners and observe the largest (most restrictive) spray buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

The spray buffer zones for airblast application of this product can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Pest Management Regulatory Agency web site. Spray buffer zones for groundboom sprayer application **CANNOT** be modified using the Spray Buffer Zone Calculator.

**RESISTANCE-MANAGEMENT RECOMMENDATIONS**

For resistance management, please note that **NEXTER SC Miticide/Insecticide** contains a Group 21 insecticide/acaricide. Any insect/mite population may contain individuals naturally



resistant to **NEXTER SC Miticide/Insecticide** and other Group 21 insecticides/acaricides. The resistant individuals may dominate the insect/mite population if this group of insecticides/acaricides is 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 **NEXTER SC Miticide/Insecticide** or other Group 21 insecticides/acaricides with different groups that control the same pests in a field.
- 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 or to report suspected resistance, contact Gowan Company at 1-800-960-4318.

## **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.

Nexter – base panel for booklet – permanently attached to foil bag

|       |           |             |
|-------|-----------|-------------|
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Next-r - case

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4. Potential skin sensitizer.
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6. Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. In addition, during airblast application, wear protective eyewear (goggles or face shield) and chemical-resistant headgear. A chemical-resistant headgear includes chemical-resistant Sou'Wester hat, chemical-resistant rain hat or large brimmed waterproof hat and hood with sufficient neck protection. Gloves, protective eyewear and a hat are not required during application within a closed cab.
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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.

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.

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