

Dyno-Mite SC – booklet

**GROUP 21 INSECTICIDE**

**Dyno-Mite SC®**  
**MITICIDE/INSECTICIDE**  
SOLUBLE CONCENTRATE FORMULATION

For control of listed mites and whiteflies in greenhouses on ornamental plants, flower and foliage crops and listed mites on greenhouse peppers, cucumbers and tomatoes and outdoor ornamental plants for nursery stock.

**COMMERCIAL**

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

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

**REGISTRATION NO.:** 33434  
**PEST CONTROL PRODUCTS ACT**



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

Warning, contains the allergen sulfites

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

**NET CONTENTS:** 0.5 L - Bulk



Canyon Group L.L.C  
P.O. Box 5569  
Yuma, AZ 85366-5569  
1-800-960-4318

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

## GENERAL INFORMATION

This package contains **DYNO-MITE SC** miticide/insecticide to control listed mites and whiteflies in greenhouses on ornamental plants and flowers and foliage crops and listed mites on greenhouse peppers, greenhouse cucumbers, greenhouse tomatoes and outdoor ornamentals for nursery stock.

**DYNO-MITE SC** miticide/insecticide works primarily through contact action, so good spray coverage is necessary.

**DYNO-MITE SC** miticide/insecticide provides excellent knockdown and residual control. A good evaluation of performance can generally be made 4 to 7 days after treatment.

## 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. For outdoor ornamentals: Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair.  
For greenhouse uses: Wear waterproof rain gear, rubber boots, socks, protective eyewear (goggles or faceshield), gloves (rubber, PVC, neoprene or nitrile), hat 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 during mixing, loading, application, clean-up and repair.
7. DO NOT re-enter treated areas within 12 hours. **DO NOT** enter or allow worker entry into treated areas during the restricted entry interval (REI) of 6 days to perform hand harvesting, hand pruning or disbudding greenhouse cut flowers. For all other postapplication activities, **DO NOT** enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours. 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 waterproof rain gear over long-sleeved shirt and long pants, rubber boots, socks, goggles, gloves (rubber, PVC, neoprene or nitrile), hat 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 are worn. Time spent in the treated area cannot exceed 1 hour in a 24 hour period or until the REI ends.
8. If clothing becomes contaminated, remove and wash separate 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. 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.

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 ([www.croplife.ca](http://www.croplife.ca))

### **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 a 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.

## **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 (outdoor ornamentals), and crops where managed bees are present: DO NOT apply during the crop blooming period.

Toxic to bees and other beneficial insects. May harm bees and other beneficial insects used in greenhouse production. Avoid application when bees or other beneficial insects are foraging in the treatment area.

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.

## **DIRECTIONS FOR USE**

Please refer to and retain this booklet for complete directions.

### **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.

### **MIXING**

1. Fill the spray tank one-half full of water and start agitation.
2. Add **DYNO-MITE SC** miticide/insecticide .
3. Continue agitation while filling tank to the desired spray volume.
4. Dilute **DYNO-MITE 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. **DYNO-MITE SC** miticide/insecticide may leave visible residues when used at high rates. See **Restrictions and Limitations** section.

The toxicity of **DYNO-MITE SC** miticide/insecticide to beneficial predators or parasites has not been fully evaluated. Use with caution in a pest management program utilizing beneficial arthropods.

## **RESTRICTIONS AND LIMITATIONS**

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

Do not apply this product by air.

For all uses: **DO NOT** apply by hand-held mistblower or hand-held fogger.

For greenhouse uses: **DO NOT** use more than 1000 litres of spray solution per hectare.

## RECOMMENDED APPLICATION RATES

Crop	Pest	Rate	Use Information
Greenhouse grown ornamental trees, shrubs, plants and flowers.	Twospotted spider mites ( <i>Tetranychus urticae</i> )	240 -470 mL/ha (108.0= 211.5 g a.i./ha)	Treat when pests are immature or at susceptible stage and populations are building before crop damage.
	Whiteflies	470 -700 mL/ha (211.5= 315.0 g a.i./ha)	Treat when pests are immature or at susceptible stage and populations are building before crop damage.

### General Use Information

Use a minimum water volume for thorough coverage of plant foliage. Suggested spray volumes by crop height:

0.6 m= 500 L/Ha

1.1 m= 1000 L/Ha

2.1 m= 2500 L/Ha

A maximum of 2 application per crop cycle.

Apply at intervals of at least 28 days.

Crop	Pest	Rate	Use Information
Greenhouse peppers	Twospotted spider mites ( <i>Tetranychus urticae</i> )	470 mL/ha (211.5 g a.i./ha)	Apply when mites first appear and before the threshold of 5 mites per leaf is reached.  Pre-harvest interval: 3 days
Greenhouse cucumbers			Treat when pests are immature or at susceptible stage and populations are building before crop damage.  Pre-harvest interval: 2 days
Greenhouse tomatoes			<b>Do not use Dyno-Mite SC</b> Miticide/insecticide-treated tomatoes for process.  Pre-harvest interval: 2 days

### General Use Information

Treat when pests are immature or at susceptible stage and populations are building before crop damage

Use a minimum water volume for thorough coverage of plant foliage. Suggested spray volumes by crop height:

0.6 m= 500 L/Ha

1.1 m= 1000 L/Ha

2.1 m= 2500 L/Ha

A maximum of 2 application per crop cycle.  
Apply at intervals of at least 28 days.

Crop	Pest	Rate	Use Information
Outdoor Grown Ornamental Trees, Shrubs, Plans and Flowers	European Red Mite ( <i>Panonychus ulmi</i> )  Twospotted Spider Mite ( <i>Tetranychus urticae</i> )  Apple Rust Mite ( <i>Aculus schlechtendali</i> )  Pear Rust Mite ( <i>Epirimerus pyri</i> )	470 mL/ha (211.5 g a.i./ha)	Apply when mites first appear and before crop damage is evident since <b>DYNO-MITE SC</b> miticide/insecticide may require several days before mites exhibit symptoms. <b>DYNO-MITE SC</b> miticide/insecticide is not ovicidal.  Use a minimum 1000 L water volume for thorough coverage of plant foliage.  A maximum of 2 applications per season.  Reapply at an interval of at least 28 days if monitoring indicates that further application is required.  Thorough coverage is required for optimum control.

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.

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

**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				
		Freshwater Habitat of Depths:		Estuarine/Marine Habitat of Depths:		Terrestrial habitat
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Groundboom	Outdoor ornamental	10	1	1	1	0
Airblast	Outdoor ornamental, Late growth stage	55	30	20	15	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.

To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.

For outdoor ornamentals: **DO NOT** apply by hand-held mistblower or hand-held fogger. TOXIC to bees. **DO NOT** apply during the crop blooming period.

For greenhouse use: **DO NOT** apply by hand-held mistblower. TOXIC to bees and other beneficial insects. May harm bees and other beneficial insects used in greenhouse production. Avoid application when bees or other beneficial insects are foraging in the treatment area.

## RESISTANCE MANAGEMENT

For resistance management, please note that **DYNO-MITE SC** miticide/insecticide contains a Group 21 insecticide/acaricide. Any insect/mite population may contain individuals naturally resistant to **DYNO-MITE 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 **DYNO-MITE 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**

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Dyno-Mite SC = case

<b>GROUP</b>	<b>21</b>	<b>INSECTICIDE</b>
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PEST CONTROL PRODUCTS ACT**



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

Warning, contains the allergen sulfites.

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**NET CONTENTS:** 0.5 - Bulk



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## 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. For outdoor ornamentals: Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair.  
For greenhouse uses: Wear waterproof rain gear, rubber boots, socks, protective eyewear (goggles or faceshield), gloves (rubber, PVC, neoprene or nitrile), hat 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 during mixing, loading, application, clean-up and repair.
7. DO NOT re-enter treated areas within 12 hours. **DO NOT** enter or allow worker entry into treated areas during the restricted entry interval (REI) of 6 days to perform hand harvesting, hand pruning or disbudding greenhouse cut flowers. For all other postapplication activities, **DO NOT** enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours. 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 waterproof rain gear over long-sleeved shirt and long pants, rubber boots, socks, goggles, gloves (rubber, PVC, neoprene or nitrile), hat 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 are worn. Time spent in the treated area cannot exceed 1 hour in a 24 hour period or until the REI ends.
8. If clothing becomes contaminated, remove and wash separate 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.
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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.
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### **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.
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### If this is a refillable container:

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## **NOTICE TO USER**

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