

ForbidTM 240 SC

Insecticide/Miticide

GROUP	23	INSECTICIDE
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For control of mites and whiteflies on greenhouse vegetables and ornamentals

COMMERCIAL

SUSPENSION

GUARANTEE: Spiromesifen 240 g/L

Contains 1, 2-benzisothiazolin-3-one at 0.04%, 5-chloro-2-methyl-4-isothiazolin-3-one at 0.001% and -2-methyl-4-isothiazolin-3-one at 0.0004% as formulation preservatives.

REGISTRATION NO. 28590 PEST CONTROL PRODUCTS ACT



EYE IRRITANT

READ THE LABEL AND ATTACHED LEAFLET BEFORE USING

NET CONTENTS : 250 mL, 500 mL, 5 L

Bayer CropScience Inc.*
Suite 200, 160 Quarry Park Blvd. S.E.
Calgary, Alberta T2C 3G3

*Bayer Environmental Science
A Division of Bayer CropScience

Product Information: 1-888-283-6847
www.bayercropscience.ca

"In case of spills, poisoning or fire, telephone emergency response number 1-800-334-7577 (24 hours a day)."



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.

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN.

May be harmful if swallowed, inhaled, or absorbed through skin. Causes eye irritation. Avoid contact with skin, eyes, or clothing. Do not breathe vapour.

When handling the product, wear long-sleeved shirt, long pants, and chemical-resistant gloves. Mixer/loaders should also wear a respirator with appropriate filter, and goggles or face shield in addition to the above.

Vacate the area to be treated until the application is complete.

Follow manufacturer's instructions for cleaning/ maintaining Personal Protective Equipment (PPE). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

DO NOT sell, ship or export plants within 12 hours of treatment.

User Safety Recommendations:

User should:

1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
2. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
3. Remove PPE immediately after handling this product.
4. Wash the outside of gloves before removing.
5. As soon as possible, wash thoroughly and change into clean clothing.

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 web site at: 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none"> • Move victim 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.
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TOXICOLOGICAL INFORMATION:

No specific antidote is available. Treat the patient symptomatically. Product may contain a petroleum distillate. Vomiting may cause aspiration pneumonia.

ENVIRONMENTAL HAZARDS

TOXIC to aquatic organisms and non-target terrestrial plants. 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. Use with caution in a pest management program utilizing beneficial insects. Do not mix, load or clean equipment within 30 metres of wellheads or aquatic systems.

To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include, but are not limited to: heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g. soils that are compacted or fine textured such as clay). Avoid application of this product 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.

Storage

Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed.

Store in original container and out of the reach of children, preferably in a locked storage area.

Store in a cool, dry place.

Do not store below freezing.

Disposal

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.

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 cleanup of spills.

Forbid™ 240 SC

Insecticide/Miticide

GROUP 23 INSECTICIDE

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SUSPENSION

GUARANTEE: Spiromesifen 240 g/L

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GENERAL INFORMATION

Section 1: Notices

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.

Section 2: The Product

Forbid™ 240 SC Insecticide/Miticide is for control of listed spider mites and whiteflies in greenhouse vegetables (tomatoes, cucumbers, peppers and eggplant) and in ornamentals.

Forbid 240 SC Insecticide/Miticide is a Suspension Concentrate formulation. The active ingredient contained in Forbid 240 SC Insecticide/Miticide is active by contact on all mite development stages. However, mite juvenile stages are often more susceptible than adults.

Forbid 240 SC Insecticide/Miticide is also effective against whitefly nymphs, plus it has an effect on the pupal stage. Application should be timed to coincide with early threshold levels in developing mite and whitefly populations.

Forbid 240 SC Insecticide/Miticide can be applied by air or ground equipment. However, thorough coverage of all plant parts is required for optimum performance. Performance evaluations should be made 4 – 10 days following application.

Forbid™ 240 SC Insecticide/Miticide has translaminar movement throughout the leaf surface, but to assure optimum effectiveness, the product should be applied to wet both the upper and lower surfaces of the leaf canopy.

Visit us at www.bayercropscience.ca or phone 1-888-283-6847 for information on recent additional registrations for Forbid™ 240 SC Insecticide/Miticide.

SAFETY AND HANDLING

Section 3: Precautions, Protective Clothing and Equipment

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN.

May be harmful if swallowed, inhaled, or absorbed through skin. Causes eye irritation. Avoid contact with skin, eyes, or clothing. Do not breathe vapour.

When handling the product, wear long-sleeved shirt, long pants, and chemical-resistant gloves. Mixer/loaders should also wear a respirator with appropriate filter, and goggles or face shield in addition to the above.

Vacate the area to be treated until the application is complete.

Follow manufacturer's instructions for cleaning/ maintaining Personal Protective Equipment (PPE). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

DO NOT sell, ship or export plants within 12 hours of treatment.

User Safety Recommendations:

User should:

1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
2. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
3. Remove PPE immediately after handling this product.
4. Wash the outside of gloves before removing.
5. As soon as possible, wash thoroughly and change into clean clothing.

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 web site at: www.croplife.ca.

Section 4: First Aid and Toxicological Information

FIRST AID:

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

If swallowed	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Move victim 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

TOXICOLOGICAL INFORMATION:

No specific antidote is available. Treat the patient symptomatically. Product may contain a petroleum distillate. Vomiting may cause aspiration pneumonia.

Section 5: Environmental Hazards

TOXIC to aquatic organisms and non-target terrestrial plants. 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. Use with caution in a pest management program utilizing beneficial insects. Do not mix, load or clean equipment within 30 metres of wellheads or aquatic systems.

To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include, but are not limited to: heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g. soils that are compacted or fine textured such as clay). Avoid application of this product 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.

Section 6: Storage

Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed.

Store in original container and out of the reach of children, preferably in a locked storage area.

Store in a cool, dry place.

Do not store below freezing.

Section 7: Disposal

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.

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 cleanup of spills.

DIRECTIONS FOR USE

Section 8: Crops and Pests

GREENHOUSE ORNAMENTALS AND VEGETABLES (TOMATOES, CUCUMBERS AND PEPPERS).

PEST	CROP	DOSAGE (Forbid™ 240 SC Insecticide/Miticide)	REMARKS
Two-spotted spider mite Whiteflies (including sweetpotato, silverleaf and greenhouse whiteflies)	Greenhouse Ornamentals	30 mL per 100 L of water (=0.03% solution) Under high pest population pressure, re-apply in 10 - 14 days as required by monitoring. Do not apply more than 2 applications per crop cycle.	Forbid™ 240 SC Insecticide/Miticide has been extensively tested on, and is safe to use on a wide variety of ornamentals. However, it is impossible to test for tolerance on all ornamental varieties. It is recommended to test Forbid™ 240 SC Insecticide/Miticide on a small scale basis before full commercial use. As with many products, injury may be exacerbated if the product is applied to plants under drought stress or if temperatures are high. Avoid applying during the warmest part of the day.
Two-spotted spider mite Whiteflies (including sweetpotato, silverleaf and greenhouse whiteflies)	Greenhouse vegetables: Tomato Cucumber Pepper Eggplant	30-50 mL/100 L of water (= 0.03-0.05% solution) Application should be timed to coincide with early threshold levels in developing mite and whitefly populations. Under high pest population pressure, re-apply in 10 - 14 days as required by monitoring. Do not apply more than 2 applications per crop cycle. The maximum application volume is 2000L water/ha for greenhouse eggplants.	Avoid applying during the warmest part of the day. Do not use on <i>Pelargonium sp.</i> , <i>Peperomia</i> , on “Attache”, “Vogue” or “Classy” rose varieties or on “Noblesse” <i>Rosa floribunda</i> . Because insufficient information on tolerance currently is available, Forbid 240 SC Insecticide/Miticide is not recommended for use on <i>Alstroemeria</i> , <i>Cordyline</i> , <i>Dracaena</i> , croton, neanthebella palm, schleffera, cyclamen, orchids, hoya, fuschia, fern, <i>Hedera</i> , hydrangea, stock (<i>Matthiola</i>) or primula. Transient injury to flowers of Shasta daisy, begonia, snapdragon, and Mexican heather has been observed in some tolerance trials. Transient bleaching has been observed on “Annemarie”, “Chrissy”, “Ferrera”, “Flora”, “Napoli”, and “Red Explosion” varieties of gerbera daisy. Do not apply more than once per crop cycle (30 mL/100 L water) to phlox, Shasta daisy, snapdragon, verbena, roses, gerbera daisies or marigolds. Do not use with X-77. Forbid™ 240 SC Insecticide/Miticide should always be used in conjunction with IPM (Integrated Pest Management) practices. Forbid™ 240SC Insecticide/Miticide will not knock down adult whitefly populations.

ORNAMENTAL PLANTS, FLOWERS AND FOLIAGE PLANTS		
For use on plants intended for aesthetic purposes or climatic modification in areas such as landscapes, interior plant-scapes, camp grounds, golf courses, athletic fields, parks, gardens, rights of way and other easements, and around residential, institutional, public, commercial, and industrial buildings.		
PEST	DOSAGE (Forbid™ 240 SC Insecticide/Miticide)	REMARKS
Whiteflies (Including silverleaf, greenhouse and sweet potato whitefly) Two-spotted spider mites Broad mites	30 mL/100 L of water (0.03% solution) Under high pest population pressure, re- apply in 10 - 14 days.	Apply with ground application equipment and ensure thorough coverage of all leaf surfaces. An adjuvant may be used to improve coverage on hard to wet foliage. For best results the treatment should be made when the whitefly or mite population begins to build and before a damaging population becomes established. Forbid™ 240 SC Insecticide/Miticide is effective against the egg and nymphal stages of whiteflies and mites. For best results, applications should target these stages. Forbid™ 240SC Insecticide/Miticide will not knock down adult whitefly populations. For heavy infestations, two applications may be necessary to control whiteflies. Do not apply via chemigation. Do not apply Forbid™ 240 SC Insecticide/Miticide more than two times per crop cycle.

Section 9: Application Instructions and Use Limitations

DO NOT apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, ditches and wetlands), estuaries or 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 (ASAE) fine classification.

AERIAL 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 16 km/h at flying height at the site of application. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) fine classification. To reduce drift caused

by turbulent wingtip vortices, the nozzle distribution along the spray boom length MUST NOT exceed 65% of the wing- or rotor-span.

Section 10: Pre-Harvest and Restricted Entry Intervals

Pre-Harvest Intervals (PHI)

Crop	Pre-harvest interval (days)
Greenhouse vegetables (cucumber, pepper, tomato, eggplant)	3

Section 11: Restricted Entry Interval

Restricted Entry Interval (REI)

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours following application.

PPE required for early entry to treated areas that involves contact with anything that has been treated such as plants, soil or water, are:

- Coveralls over short sleeved shirt and short pants;
- Chemical resistant gloves;
- Shoes plus socks.

Section 12: MIXING INSTRUCTIONS

To prepare the spray, add a portion of the required amount of water to the spray tank and with agitation, then add the required amount of Forbid™ 240 SC Insecticide/Miticide. Complete filling the tank with balance of water needed. Maintain sufficient agitation during both mixing and application. Spray adjuvants may improve coverage on difficult to wet foliage.

Section 13: RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that Forbid™ 240 SC Insecticide/Miticide contains a Group 23 insecticide. Any insect population may contain individuals naturally resistant to Forbid™ 240 SC Insecticide/Miticide and other Group 23 insecticides. The resistant individuals may dominate the insect population if this group of insecticides is used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action, but 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 Forbid™ 240 SC Insecticide/Miticide or other Group 23

insecticides 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 use should be based on an IPM program that includes scouting, record keeping, and considers cultural, biological and other chemical control practices.
- Before applying Forbid™ 240 SC Insecticide/Miticide, correctly identify the pest and ensure economic and agronomic thresholds are met as recommended by local provincial or IPM specialists.
- 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 Bayer CropScience via internet at www.bayercropscience.ca or phone 1-888-283-6847.

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