

SHUTTLE® 0

GROUP

20B

INSECTICIDE

MITICIDE

SPECIMEN LABEL

FOR USE IN COMMERCIAL GREENHOUSE AND SHADEHOUSE ON ORNAMENTAL, FLORAL, FOLIAGE AND ORNAMENTAL NURSERY CROPS; ON ORNAMENTALS IN OUTDOOR LANDSCAPES AROUND THE PERIMETER OF RESIDENCES, BUSINESSES, SCHOOLS, AND PUBLIC PROPERTY; AND ON ORNAMENTALS IN NON-RESIDENTIAL INTERIORSCAPES.

ACTIVE INGREDIENT:	% By wt.
*Acequinocyl	15.8%
OTHER INGREDIENTS:	84.2%
TOTAL:	100.0%

*3-dodecyl-1, 4-dihydro-1, 4-dioxo-2-naphthyl-acetate.

Contains 1.25 lb ai/gal.

EPA Reg. No. 70506-447-59807

EPA Est. No. 70815-GA-001

KEEP OUT OF REACH OF CHILDREN CAUTION / PRECAUCIÓN

Si usted no entiende la etiqueta, busque á alguien para que se la explique á usted en detalle.

(If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID	
If inhaled:	<ul style="list-style-type: none"> • 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 center or doctor for further 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 center or doctor for treatment advice.
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 center or doctor for treatment advice.

FIRST AID <i>continued</i>	
If swallowed:	<ul style="list-style-type: none"> • Call poison control center 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 the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE: Call OHP, Inc. at 1-800-356-4647	
For 24-HOUR CHEMICAL EMERGENCY (Spill, leaks, fire, exposure or accident) Call CHEMTREC: 1-800-424-9300.	

For Product Use Information Call 1-800-356-4647

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if inhaled. Avoid breathing spray mist. Harmful if absorbed through the skin. Causes moderate eye irritation. Harmful if swallowed. Avoid contact with skin, eyes or clothing.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Socks
- Shoes
- Chemical resistant gloves made out of: barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, polyvinyl chloride ≥ 14 mils, or viton ≥ 14 mils.

Net Contents: 1 pint, 16 fluid ounces (473 mL)



Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions exist for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations

User should:

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

ENVIRONMENTAL HAZARDS

This product is toxic to aquatic invertebrates such as Eastern oysters and mysid shrimp. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.

Surface Water Statement

This product may contaminate water through drift of spray in wind. This product has a potential for runoff for several days after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. A level, well maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from rainfall-runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. Sound erosion control practices will reduce this product's contribution to surface water contamination.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Do not apply this product in any way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Carefully read and understand the Directions for Use and restrictions before applying this product.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions on this label about personal protective equipment (PPE), notification to workers and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

AGRICULTURAL USE REQUIREMENTS *continued*

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

PPE required for early entry into treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is: coveralls, socks, shoes, chemical resistant gloves made of waterproof material.

NON-AGRICULTURAL USE REQUIREMENTS

THE REQUIREMENTS IN THIS BOX APPLY TO USES OF THIS PRODUCT THAT ARE NOT WITHIN THE SCOPE OF THE Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

RESTRICTIONS

- The area being treated must be vacated by unprotected persons.
- Keep children, pets and unprotected persons out of treated areas until sprays have dried.

PRODUCT INFORMATION

SHUTTLE® O is a miticide for the control of Citrus red mite (*Panonychus citri*), European red mite (*Panonychus ulmi*), Pacific spider mite (*Tetranychus pacificus*), Texas citrus mite (*Eutetranychus banksi*) and Spruce spider mite (*Oligonychus ununquius*), Strawberry spider mite (*Tetranychus turkestani*), Willamette spider mite (*Eotetranychus willamettei*) and Two spotted spider mite (*Tetranychus urticae* and *Tetranychus cinnabarinus*), and Broad mite (*Polyphagotarsonamus latus*).

When applied to the foliage as directed, **SHUTTLE O** provides knockdown and residual control. Due to its mode of action, **SHUTTLE O** is not expected to have cross-resistance to existing miticides and is very effective against various species of resistant and susceptible mites. **SHUTTLE O** is relatively harmless to most predacious mites and beneficial insects, making it compatible with IPM and resistance management programs.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, **SHUTTLE O** contains a Group 20B insecticide. Mites with acquired resistance to Group 20B insecticides may eventually dominate the mite population if this group of insecticides is used repeatedly in the same field or in successive years as the primary method of control for targeted pests. Other resistance mechanisms that are not linked to site of action but are specific for individual chemicals, such as enhanced metabolism, may also exist. Follow Appropriate resistance management strategies. If resistance develops, the product may lose effectiveness in controlling the target pests.

To delay insecticide resistance:

- Where possible, rotate the use of **SHUTTLE O** or other Group 20B 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.
- Incorporate IPM techniques into your insect/mite control program.
- Ensure thorough spray coverage of all foliage.
- It is recommended that **SHUTTLE O** not be used in successive applications. Rotation with other miticides having different modes of action is recommended.
- For further information or to report suspected resistance contact OHP, Inc. at 1-800-356-4647.

ORNAMENTAL PLANT TOLERANCE

Neither the manufacturer nor the seller has determined whether or not **SHUTTLE O** can be used safely on all varieties and cultivars. **SHUTTLE O** has been tested on a variety of plants with no phytotoxicity observed at label rates. Since all plant species and their varieties and cultivars have not been tested for tolerance, it is recommended that a small number of plants be sprayed to make certain that no phytotoxicity occurs, prior to any large scale application to plants. The end user assumes all risks arising from application of **SHUTTLE O** in a manner inconsistent with its labeling. **Certain varieties of IMPATIENS and MINIATURE ROSES are known to be sensitive to certain pesticides. Before using SHUTTLE O for mite control in the production of these ornamentals in particular, test them for sensitivity to SHUTTLE O on a limited scale before widespread use.**

TANK MIXING

It is the pesticide user's responsibility to ensure that all products in the mixtures are registered for the intended use. Users must follow the most restrictive directions and precautionary language of the products in the mixtures (for example, first aid from one product, spray drift management from another).

SHUTTLE O can be combined with most commonly used pesticides with the exception of strongly alkaline material, which can reduce the activity of this product. **DO NOT** combine **SHUTTLE O** with Phos-ethyl (Fosetyl). To obtain broad-spectrum insect control, **SHUTTLE O** can be tank-mixed with most other miticide/insecticide products. However, all plant species and their varieties and cultivars have not been tested with possible tank mix combinations, sequential pesticide treatments and adjuvants and surfactants. The user should conduct a spray mix compatibility and phytotoxicity trial under local conditions to ensure compatibility prior to any large-scale use.

PREPARATION OF SPRAY SOLUTION

Begin with clean equipment. Add sufficient clean water to the spray tank for one-half of the mix load. Start tank agitation. Add and properly suspend the necessary amount of product before adding any other products. Agitate to ensure thorough mixing while adding the remaining required water. If allowed for use on your specific crop a high quality wetting agent or other agricultural spray adjuvant may be added to spray solutions according to the manufacturer's use directions. **SHUTTLE O** must be properly suspended and diluted prior to the addition of any adjuvant. Consult the adjuvant label or manufacturer for crop tolerance and safety information when used with this product. Maintain agitation during mixing and application. Allowing the spray mixture to stand without agitation may result in an improperly suspended mixture. If agitation is stopped for

any reasons, thoroughly re-mix the spray solution prior to any further use. Apply with properly calibrated spray equipment.

APPLICATION INFORMATION

Apply **SHUTTLE O** when threshold populations are observed and before large mite populations have been established.

Apply **SHUTTLE O** in sufficient water to ensure uniform and thorough coverage of foliage. Thorough coverage is required for optimum control. To achieve adequate coverage, use proper spray pressures, nozzles, nozzle spacing, and water volume per acre.

When used as directed, **SHUTTLE O** is effective for the control of a variety of listed mite species. **SHUTTLE O** shows efficacy on all mite life stages of susceptible mites. Using **SHUTTLE O** in successive miticide applications is not recommended. Use **SHUTTLE O** as part of a sound resistance management program that includes rotation with other miticide treatments having different modes of action.

Rotational Crop Restrictions

Food and feed crops not listed on this label must not be planted within 30 days of the last **SHUTTLE O** application.

RESTRICTIONS (FOR ALL CROPS)

- Do not apply this product through any type of irrigation system.
- Do not apply by air.
- Do not apply within 75 feet of aquatic areas.
- Not for indoor residential use.
- A 30-day plant-back interval is required for all crops not listed on this label.

CUCURBIT VEGETABLES (CROP GROUP 9); CHAYOTE (FRUIT); CHINESE WAXGOURD (CHINESE PRESERVING MELON); CITRON MELON; CUCUMBER; GHERKIN; GOURD, EDIBLE (INCLUDES HYOTAN, CUCUZZA, HECHIMA, CHINESE OKRA); MOMORDICA SPP. (INCLUDES BALSAM APPLE, BALSAM PEAR, BITTERMELON, CHINESE CUCUMBER); MUSKMELON (INCLUDES CANTALOUPE); PUMPKIN; SQUASH, SUMMER; SQUASH, WINTER (INCLUDES BUTTERNUT SQUASH, CALABZA, HUBBARD SQUASH, ACORN SQUASH, SPAGHETTI SQUASH); WATERMELON.

FIELD GROWN and COMMERCIAL GREENHOUSE GROWN

PEST	USE RATE
Two spotted spider mite (<i>Tetranychus urticae</i> and <i>Tetranychus cinnabarinus</i>)	31 fl oz/A (0.3 lb ai/A)
Broad Mite (<i>Polyphagotarsonemus latus</i>)	

RESTRICTIONS

- Do not use less than 30 gallons of water volume per acre.
- Allow a minimum of 21 days between treatments.
- Do not make more than two applications of **SHUTTLE O** per year.
- Do not apply more than 62 fl oz of **SHUTTLE O** per acre (0.6 lb ai) per year.
- Preharvest interval is 1 day.
- Restricted entry interval (REI) is 12 hours.

FRUITING VEGETABLES (CROP GROUP 8-10) AFRICAN EGGPLANT; BUSH TOMATO; BELL PEPPER; COCONA; CURRANT TOMATO; EGGPLANT; GARDEN HUCKLEBERRY; GOJI BERRY; GROUNDCHERRY; OKRA; PEA EGGPLANT; PEPINO; NONBELL PEPPER; ROSELLE; SCARLET EGGPLANT; SUNBERRY; TOMATILLO; TOMATO; TREE TOMATO; CULTIVARS, VARIETIES, and/or HYBRIDS of these.

PEST	USE RATE
Two spotted spider mite (<i>Tetranychus urticae</i> and <i>Tetranychus cinnabarinus</i>)	31 fl oz/A (0.3 lb ai/A)
Broad Mite (<i>Polyphagotarsonamus latus</i>)	

RESTRICTIONS

- Do not use less than 100 gallons of water volume per acre.
- Allow a minimum of 21 days between treatments.
- Do not make more than two applications of **SHUTTLE O** per year.
- Do not apply more than 62 fl oz of **SHUTTLE O** per acre (0.6 lb ai) per year.
- Preharvest interval is 1 day.
- Restricted entry interval (REI) is 12 hours.

APPLICATION TO PRODUCTION AND LANDSCAPE ORNAMENTALS

SHUTTLE O is a miticide for the control of Citrus red mite (*Panonychus citri*), European red mite (*Panonychus ulmi*), Pacific spider mite (*Tetranychus pacificus*), Texas citrus mite (*Eutetranychus banksi*) and Spruce spider mite (*Oligonychus ununquus*), Strawberry spider mite (*Tetranychus turkestanii*), Willamette spider mite (*Eotetranychus willamettei*) and Two spotted spider mite (*Tetranychus urticae*) on production and landscape ornamentals.

For control of susceptible mites, mix 6.4 -12.8 fluid ounces of **SHUTTLE O** in 100 gallons of water. Apply as a full coverage spray to the foliage to the point of drip. Actual spray volume used per acre will vary depending on the size of plants being sprayed. Make application as soon as mite population reaches threshold infestation levels.

SHUTTLE O will control susceptible mite infestations on ornamental plants growing in interiorscapes, arboretums, field nursery plantings, container nurseries, forest nurseries, residential and commercial landscapes, greenhouses, lath and shade houses, parks and recreation areas and areas surrounding schools.

APPLICATION RATES

PEST	RATE PER ACRE
Citrus red mite (<i>Panonychus citri</i>) European red mite (<i>Panonychus ulmi</i>) Pacific spider mite (<i>Tetranychus pacificus</i>) Spruce spider mite (<i>Oligonychus ununquus</i>)	6.4 fl oz to 12.8 fl oz
Two spotted spider mite (<i>Tetranychus urticae</i>) Willamette spider mite (<i>Eotetranychus willamettei</i>) Strawberry spider mite (<i>Tetranychus turkestanii</i>) Texas citrus mite (<i>Eutetranychus banksi</i>)	(0.06 lb ai/A - 0.10 lb ai/A)

RESTRICTIONS

- **Apply a maximum of 12.8 oz/A/application, not to exceed 25.6 oz/A/year.**
- Do not use less than 100 gallons of water volume per acre.
- Allow a minimum of 14 days between treatments.
- Not for indoor residential use.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Store in original container and keep tightly closed. Store in a cool dry place. Protect from excessive heat.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, pesticide spray or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING: Rigid, Nonrefillable containers small enough to shake (i.e., with capacities equal to or less than 5 gallons).

Non-refillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Offer for recycling, if available, or puncture and dispose of in a sanitary landfill or by incineration.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Warranty and Disclaimer Statement

The Directions for Use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Such risks may arise from weather conditions, soil factors, off-target movement, unconventional farming techniques, the presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of OHP, Inc., and can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. All such risks shall be assumed by the user or buyer.

OHP, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions.

This warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to OHP, Inc., and is subject to the inherent risks described above.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, OHP, INC. DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, OHP, INC., MANUFACTURER, AND SELLER DISCLAIM AND SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE, HANDLING, APPLICATION, STORAGE, OR DISPOSAL OF THIS PRODUCT OR FOR DAMAGES IN THE NATURE OF PENALTIES, AND THE USER AND BUYER WAIVE ANY RIGHT THAT THEY MAY HAVE TO SUCH DAMAGES.

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TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE TOTAL LIABILITY OF OHP, INC., MANUFACTURER, AND SELLER, SHALL BE LIMITED TO THE PURCHASE PRICE PAID, OR AT OHP, INC'S ELECTION, THE REPLACEMENT OF THE PRODUCT.

**For Transportation Emergencies (call 24 hours a day)
1-800-424-9300.**

For Medical (call 24 hours a day) and Product Use Information call 1-800-356-4647.

SHUTTLE is a registered trademark of Arysta LifeScience North America, LLC.

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