

# SHUTTLE™ 15 SC

MITICIDE

GROUP	<b>20B</b>	ACARICIDE
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**FOR USE ON COMMERCIAL GREENHOUSE AND SHADEHOUSES, ON CONTAINER-GROWN ORNAMENTAL, FLORAL, FOLIAGE AND NURSERY CROPS**

**DO NOT use this product on any flowers or foliage that are to be cut prior to sale (e.g., long stem roses)**

**Not For Residential Use**

**AGRICULTURAL**

**Suspension**

**KEEP OUT OF REACH OF CHILDREN**

**READ THE LABEL BEFORE USING**

**GUARANTEE:**

Acequinocyl .....15.8%

Contains 2-bromo-2-nitropropane-1,3-diol at 0.009%, 2-methyl-4-isothiazolin-3-one at 0.0006%, and 5-chloro-2-methyl-4-isothiazolin-3-one at 0.0014% as preservatives

**REGISTRATION NUMBER 28640**

**PEST CONTROL PRODUCTS ACT**

**NET CONTENTS: 1 Litres**

**Arysta LifeScience North America, LLC  
15401 Weston Parkway, Suite 150  
Cary, NC 27513**

**For Product Use Information: 1-866-761-9397**

## GENERAL INFORMATION

SHUTTLE 15 SC MITICIDE is a miticide for the control of Two-spotted spider mite (*Tetranychus urticae*) and Spruce spider mite (*Oligonychus ununguis*) on greenhouse and shadehouse container-grown ornamental, floral, foliage and nursery crops. When applied to the foliage as directed, SHUTTLE 15 SC MITICIDE provides quick knockdown and long residual control.

## RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, please note that SHUTTLE 15 SC MITICIDE contains a Group 20B acaricide. Any mite population may contain individuals naturally resistant to SHUTTLE 15 SC MITICIDE and other Group 20B acaricides. The resistant individuals may dominate the mite population if this group of 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 acaricide resistance:

- Where possible, rotate the use of SHUTTLE 15 SC MITICIDE or other Group 20B acaricides 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 SHUTTLE 15 SC MITICIDE or other acaricides in the same group in a season.
- Use tank mixtures with acaricides from a different group when such use is permitted.
- 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 Arysta LifeScience North America, LLC at 1-866-761-9397.

## PLANT TOLERANCE

Neither the manufacturer nor the seller has determined whether or not SHUTTLE 15 SC MITICIDE can be used safely on all varieties and cultivars. SHUTTLE 15 SC MITICIDE 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 15 SC MITICIDE in a manner inconsistent with its labeling. Do not apply to miniature roses and impatiens.

## 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. Maintain agitation during mixing and application. DO NOT allow the spray mixture to stand without agitation. If agitation is stopped for any reason, the spray solution must be thoroughly re-mixed prior to any further use. Apply with properly calibrated spray equipment.

## APPLICATION

Apply SHUTTLE 15 SC MITICIDE when treatment thresholds have been reached, as determined by local monitoring. Do not wait until large mite populations have been established. Thorough coverage is required for optimum control. To achieve adequate coverage, use proper spray pressures, nozzles, and nozzle spacing. When used as directed, SHUTTLE 15 SC MITICIDE is effective for the control of listed mite species, but is not effective against rust mites. SHUTTLE 15 SC MITICIDE shows efficacy on all mite life stages of susceptible mites. Using SHUTTLE 15 SC MITICIDE in successive miticide applications is not recommended. Use SHUTTLE 15 SC MITICIDE as part of a sound resistance management program that includes rotation with other miticide treatments having different modes of action.

## GENERAL RESTRICTION AND LIMITATIONS

Do not apply this product through any type of irrigation system. Do not use SHUTTLE 15 SC MITICIDE in successive miticide applications. Use SHUTTLE 15 SC MITICIDE in rotation with other treatments having different modes of action.

Not for use in or around residential sites. For use in commercial greenhouses and shadehouses only on container-grown ornamental, floral, foliage and nursery crops. Do not use on food crops.

## DIRECTIONS FOR USE

**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.

**DO NOT** allow effluent or runoff from greenhouses or mushroom houses containing this product to enter lakes, streams, ponds, estuaries, oceans or other waters.

## ORNAMENTALS AND NURSERY PLANTS IN GREENHOUSE AND SHADEHOUSES

For control of Two-spotted spider mite (*Tetranychus urticae*) and Spruce spider mite (*Oligonychus ununguis*) mix 0.21 - 0.46 L of SHUTTLE 15 SC MITICIDE in 500 litres of water (0.07 - 0.15g ai/L of solution) and apply as a full coverage spray to the foliage to drip except for roses where the application rate is 0.21 L in 500 litres of water (0.07g ai/L of solution) (Table 1. and 2.). Actual spray volume will vary depending on the size of plants being sprayed. Application should be made as soon as the mite population reaches economic infestation levels. Apply the higher concentration for heavy pest infestations. Do not apply more than a maximum of two applications per year.

**Table 1. Application Rate For Ornamental, Floral, Foliage and Nursery Crops in Greenhouses and Shadehouses\* (For Roses See Table 2)**

PEST	Rate of product per 500 liters of water
Two-spotted spider mite ( <i>Tetranychus urticae</i> ) Spruce spider mite ( <i>Oligonychus ununguis</i> )	0.21 - 0.46 L (0.07 - 0.15g ai/L of solution)

\*Do not apply to impatiens

Do not apply more than 0.69kg ai/ha per crop cycle. Do not apply more than a maximum of two applications per year.

**Table 2. Application Rate for Roses (Except Miniature Roses\*\*) in Greenhouses and Shadehouses**

PEST	Rate of product per 500 liters of water
Two-spotted spider mite ( <i>Tetranychus urticae</i> )	0.21 L (0.07g ai/L of solution)

\*\*Do not apply to Miniature Roses

Do not apply more than 0.35 kg ai/ha per crop cycle. Do not apply more than a maximum of two applications per year.

## PRECAUTIONS

### KEEP OUT OF REACH OF CHILDREN

Avoid contact with eyes. Wash concentrate from skin or eyes immediately. Do not inhale fumes. Avoid breathing vapors or spray mist. After use wash hands and other exposed skin. When using do not eat, drink or smoke. Remove and launder contaminated clothing separately from household laundry before reuse. Avoid spray drift. Avoid contamination of ponds, streams, rivers and desirable vegetation. Store the container tightly closed and away from seeds, feeds, fertilizer, plants and foodstuffs. Observe appropriate provincial buffer zones around bodies of water and wetland areas. Wear a long-sleeved shirt, long pants and gloves during mixing, loading, clean-up and repair. Do not enter or allow worker entry into treated areas for 12 hours following application.

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

### FIRST AID

Remove person from contaminated area; remove contaminated clothing. Keep patient warm, comfortable, and at rest.

**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.

**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 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.

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

**FOR 24-HOUR MEDICAL EMERGENCY ASSISTANCE,  
CALL 1-866-303-6952**

**TOXICOLOGICAL INFORMATION**

Treat symptomatically.

**ENVIRONMENTAL HAZARDS**

**TOXIC** to aquatic organisms.

**STORAGE**

May be stored at ambient temperature. Keep in original container. This product should not be stored under extreme temperatures. To close package, make sure the package is folded to form an airtight seal and store under dry conditions. Insecticides and fungicides should be segregated from herbicides to prevent the possibility of cross-contamination. To prevent contamination, store this product away from food or feed.

**SPILL HANDLING**

Clean up spill immediately. Place product and any contaminated cleanup materials in a chemical waste container. Wash area with soap and water. Pick up wash liquid with additional absorbent and place in a disposable container.

**FOR 24-HOUR CHEMICAL EMERGENCY (Spills, Leak, Fire, Exposure, or Accident)  
Assistance, Call CHEMTREC 1-800-424-9300.**

**DISPOSAL**

Triple-or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank. Follow provincial instructions for any required additional cleaning of the container prior to its disposal. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial requirements. 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.

**NOTICE TO USER**

This pest control product is to be used only in accordance with the directions on the label. It is an offense 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.

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

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