

71711-4

3/4/2002

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NICHINO AMERICA, INC.
Akari™ 5SC Miticide / Insecticide

**FOR USE ON GREENHOUSE ORNAMENTAL, FLORAL AND FOLIAGE CROPS,
 INDOOR ORNAMENTAL PLANTINGS AND PLANTSCAPES**

Suspension Concentrate

Active ingredient:

Tert-butyl(E)- α -(1,3-dimethyl-5-phenoxy-pyrazol
 -4-ylmethylenaminoxy)-p-toluate.....

5.0%

Other ingredients:.....

95.0%

Total

100.0%

EPA Reg. No. 71711 - 4

EPA Estab. No. 67017-JP-001

(Contains 0.42 lb. Active ingredient per U.S. gallon)

ACCEPTED

MAR 4 2002

Under the terms of the
 registration, and the
 conditions for the use of
 this product.

71711-4

KEEP OUT OF THE REACH OF CHILDREN
WARNING AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detail. (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. |
| 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. |
| HOT LINE NUMBER | |
| Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-348-5832 for emergency medical treatment information. In case of fire or spills, information may be obtained by calling 1-800-424-9300. | |

NOTE TO PHYSICIAN: There is no specific antidote. All treatment should be based on observed signs and symptoms of distress in the patient. Overexposure to materials other than this product may have occurred.

For product information use internet website www.nichino.net

ENVIRONMENTAL HAZARDS

This pesticide is very highly toxic to fish and aquatic invertebrates. Do not apply directly to water. Do not contaminate water when disposing of equipment washwater or rinsate.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

NICHINO AMERICA, INC.
 4550 New Linden Hill Rd., Suite 501
 Wilmington, DE 19808

NET CONTENTS: 1 Quart

PRECAUTIONARY STATEMENTS
Hazards to Humans and Domestic Animals

WARNING AVISO

Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear protective eyewear (goggles or face shield). Harmful if swallowed. Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Harmful if inhaled. Avoid breathing spray mist. Remove contaminated clothing and wash clothing before reuse.

Personal Protective Equipment

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Protective eyewear
- Waterproof gloves
- Shoes plus socks

User Safety Recommendations

Do not eat, drink, smoke, or chew gum or tobacco while handling this product and until hands and face are thoroughly washed with soap and water. Do not use the toilet before thoroughly washing hands. If this product penetrated through your clothing or personal protective equipment, stop handling this product immediately, remove the clothing and equipment, wash your body thoroughly, and put on clean clothing and equipment before resuming the handling activity. After handling this product, remove personal protective equipment immediately. Wash the outside of gloves before taking them off. Shower or wash thoroughly and change into clean clothing as soon as possible. Discard clothing and personal protective equipment that cannot be reused, including clothing and other absorbent materials that have been drenched or thoroughly contaminated with this product's concentrate. Otherwise, wash clothing and personal protective equipment (including both the inside and outside of gloves) before each day of reuse according to manufacturers directions or, if no such directions, in detergent and hot water. Keep and wash them separately from other laundry.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in a cool, dry place.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Triple rinse, or equivalent. Then offer for recycling or reconditioning, or puncture and dispose if in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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 a 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 in your State responsible for pesticide regulation.

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 and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard. Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours. PPE required for early entry to 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
- Protective eyewear
- Waterproof gloves
- Shoes plus socks

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, or greenhouses. For other uses, including interiorscapes and other non-agricultural uses, do not enter treated areas without protective clothing until sprays have dried.

GENERAL INFORMATION

Akari™ 5SC is a contact miticide used for the control of spider mites on ornamentals. This product should be used in a program with other products to provide season long protection. Apply as a spray in the APPLICATION DIRECTIONS section of this label, using sufficient water volume to obtain thorough coverage of plants. Under severe mite conditions, use the maximum rates and the shorter spray interval as specified on the label. Dense foliage or excessive growth will often prevent adequate coverage, adjust spray volumes accordingly.

Akari™ 5SC is a 5% Suspension Concentrate which contains 0.42 lb. of fenpyroximate per gallon which when mixed with water according to the DIRECTIONS FOR USE will control spider mites on ornamentals.

Akari™ 5SC works primarily through contact action, so good spray coverage is necessary. Mix with sufficient water and apply as a foliar spray to obtain uniform coverage. Treat plants when pests are immature or at a susceptible stage and populations are building, before crop damage occurs.

Akari™ 5SC stops mite damage immediately after application. **Akari™** provides this stop-feeding action together with a cessation of egg laying, and mites die in 4 to 7 days.

Compatibility of Spray Mixtures: **Akari™ 5SC** is believed to be compatible with most commonly used fungicides, insecticides, micronutrients, growth regulators and spray adjuvants. Consult specific product

labels for additional information. It is always a good idea to conduct a tank mix compatibility test when you plan to mix **Akari™ 5SC** with other products.

To determine the physical compatibility of **Akari™ 5SC** with other products, use a jar test. Using a jar, add the proportionate amounts of the products to approximately one quart of water with agitation. Add dry formulations first, then flowables, then emulsifiable concentrates last. After thorough mixing, allow this mixture to stand for 5 minutes. If the combination remains mixed or can be re-mixed readily, it is physically compatible. Once compatibility has been proven, use the same procedure for adding required ingredients to the spray tank. It is suggested that combinations be used on a small number of plants before treating large areas to check for cultivar sensitivity.

MIXING DIRECTIONS

Shake well before using

Please read COMPATIBILITY OF SPRAY MIXTURES section prior to any tank mixing with **Akari™ 5SC**. Begin with clean equipment. Prepare only the amount of spray solution needed to treat the target area. Add sufficient clean water to the spray tank for one-half of the mix load. Where possible, start agitation and properly suspend the necessary amount of **Akari™ 5SC** in the tank. Agitate to ensure thorough mixing while adding the remaining required water volume and other products. **Akari™ 5SC** should be properly suspended and diluted prior to the addition of any adjuvant or before spraying. Consult the adjuvant label or manufacturer for crop tolerance and safety information when using **Akari™ 5SC**. Maintain agitation during mixing and application. If agitation is stopped for any reason, the spray solution must be thoroughly re-mixed prior to further use.

APPLICATION DIRECTIONS

GREENHOUSE USE:

Akari™ 5SC is recommended for use on all ornamental flowering and foliage crops in greenhouses and other structures with impermeable roofs where ornamental crops are grown. The use directions of this product are based on the results of product testing programs on a wide variety of greenhouse ornamental plants. However, it is impossible to test this product on all species and cultivars. The phytotoxicity of **Akari™ 5SC** has been assessed on a wide variety of common ornamental plants with no phytotoxicity. However, not all plant species and their varieties and cultivars have been tested with possible tank mix combinations, sequential pesticide treatments, and adjuvants and surfactants. Local conditions also can influence crop tolerance and may not match those under which testing has been conducted. Therefore, before using **Akari™ 5SC**, test the product on a sample of the crop to be treated to ensure that a phytotoxic response will not occur as a result of applications. Applications should be made immediately after the spray solution is prepared. Thorough spray coverage is essential for mite control.

Applications may be made with high or low volume spray equipment that provides thorough coverage of the plant. Apply with properly calibrated spray equipment. A wetting agent or other spray adjuvant, approved for use on the crop, may be added to spray solutions according to the manufacturer's use instructions to achieve optimum mite control.

Resistance Management

DO NOT use **Akari™ 5SC** in successive miticide applications in the same greenhouse. Allow at least 2 different chemicals with different modes of action to be used between treatments of **Akari™ 5SC**. Consult your local Horticultural Advisor for the most appropriate alternative products. Resistance management strategies should include alternation or tank mixtures with a miticide currently recommended for spider mite control. Resistance management strategies recommend that you DO NOT apply rates lower than recommended on the label. For best results, make no more than two applications of **Akari™ 5SC** per growing season, or per crop cycle, whichever is longer.

TABLE 1. Recommended Application Rates for Akari™ 5SC on Greenhouse Grown Ornamental Trees, Shrubs, Foliage, and Flowering Plants

| PEST | APPLICATION RATE Fl. Oz./100 GALLONS† | SPECIFIC DIRECTIONS†† |
|--------------|--|--|
| Spider mites | 12-24 ounces | Use in sufficient volume to obtain uniform plant coverage. 100 gallons of spray will typically cover 20,000 sq. ft. of greenhouse. |

† Use the lower rate in the rate range for low to moderate mite populations

†† Do not apply more than 10 gallons of spray per 1000 sq. ft. per application. Do not apply more than 48 fl oz per crop cycle or per growing season, whichever is longer.

Akari™ 5SC is recommended for use on all greenhouse ornamental plantings including those listed in Table 2.

TABLE 2. List of Plant Species Tested for Tolerance to Akari™ 5SC †

| Common Name | Scientific Name |
|----------------------|---------------------------------|
| Chrysanthemum | <i>Chrysanthemum morifolium</i> |
| Dieffenbachia | <i>Dieffenbachia</i> spp. |
| Fern | <i>Davallia</i> spp. |
| Ficus | <i>Ficus</i> spp. |
| Geranium | <i>Geranium</i> spp. |
| Gerbera | <i>Gerbera</i> spp. |
| Hypoestes | <i>Hypoestes</i> spp. |
| Marigold | <i>Tagetes erecta</i> |
| New Guinea Impatiens | <i>Impatiens linearifolia</i> |
| Poinsettia | <i>Euphorbia pulcherrima</i> |
| Rose | <i>Rosa</i> spp. |
| Schefflera | <i>Schefflera</i> spp. |
| Zinnia | <i>Zinnia elegans</i> |

† Local conditions can influence crop tolerance and may not match those under which these species were tested. Before using Akari™ 5SC, test the product on a small sample of the crop to be treated.

USE PRECAUTIONS

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

Do not apply this product as a smoke, mist, fog, or aerosol.

Do not enter the entire enclosed area (treated area) without protective equipment for 12 hours unless one of the following items is completed:

1. Ten air exchanges
2. Two hours of system ventilation
3. Four hours of ventilation using vents, windows, or other passive ventilation
4. Eleven hours with no ventilation followed by 1 hour of mechanical ventilation
5. Eleven hours with no ventilation followed by 2 hours of passive ventilation
6. All required PPE is worn.

**IMPORTANT: READ BEFORE USE
WARRANTY STATEMENT**

By using this product, user or buyer accepts the following conditions, warranty, disclaimer of warranties and limitations of liability.

CONDITIONS: NAI warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. The directions for use of this product are believed to be accurate and should be followed carefully. However, because of extreme weather and soil conditions, use methods and other factors beyond the control of Nichino America, Inc. (NAI), it is impossible for NAI to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible. All such risks are assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: NAI makes NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, WHICH EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of NAI is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. NAI disclaims any liability whatsoever for incidental or consequential damages, including, but not limited to, liability arising out of breach of contract, express or implied warranty (including warranties of merchantability and fitness for a particular purpose), tort, negligence, strict liability or otherwise.

LIMITATIONS OF LIABILITY: THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT THE ELECTION OF NICHINO AMERICA, THE REPLACEMENT OF PRODUCT.

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