



400-503

09/26/2003

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

September 26, 2003

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Mr. Fred Hageman
Crop Protection R & D
Crompton Manufacturing Co., Inc.
74 Amity Road
Middlebury, CT 06749

Subject: EPA Reg. No. 400-503
Acramite® - 50WS
Label Amendment: To Add Cucurbit and Fruiting Vegetables,
Okra, Mint, and Tree Nuts to the Label.
Your Application dated October 9, 2002

Dear Mr. Hageman:

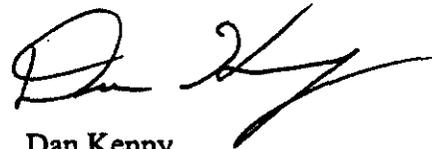
The application referred to above has been reviewed by the Agency. The submitted label is acceptable provided you make the following changes:

1. Add "Prolonged or frequently repeated contact may cause allergic reaction in some individuals" to the Precautionary Statement on page 2.
2. Delete superscript "L" in the Total Number of Sprays/Season column for Strawberries because "L" refers to Apples in the list of foot notes on page 4.
3. Add to the foot note "M" on page 4 for Strawberries "Use only one application per harvested crop per year. Two sprays per year permit use where more than one crop is harvested each year."
4. Delete "Stone Fruit: (See foot note N for crops....listed below)" on page 3, as there is no Stone Fruit group tolerance set for this group. Therefore, delete "Apricots and "Cherries" from the list.
5. Delete the foot note "N Stone Fruit:domestica) on page 4, as there is no Stone Fruit group tolerance set for this group of fruits.
6. Change the foot note "O" for Tree Nuts on page 3 to "N." Also on page 4.

EPA Reg. No. 400-503 contd

A stamped copy of the label is enclosed for your records. Submit one (1) copy of your final printed labeling before you release the product for shipment. Should you have any questions, do not hesitate to contact the reviewer of this product, Mr. S. Oonnithan at 703-605-0368.

Sincerely,



Dan Kenny.
Product Manager - 01
Insecticide Rodenticide Branch
Registration Division (7505C)

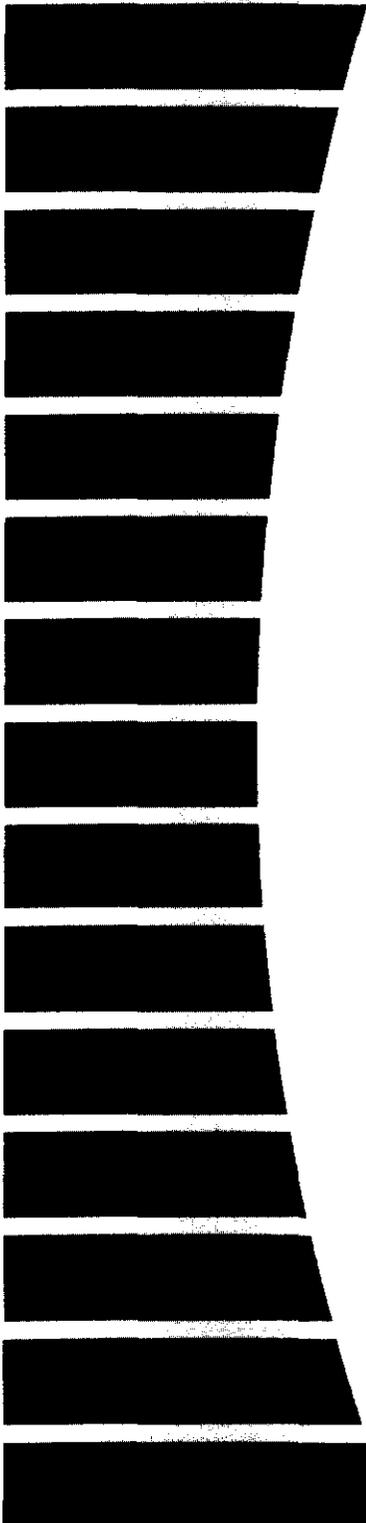
Encl.

ACCEPTED
with COMMENTS
In EPA Letter Dated:
SEP 26 2003

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No.

400-503

Acramite®-50WS



Miticide in Water Soluble Bags

Net Contents:

For agricultural use only

THIS BAG CONTAINS 2 x .5 lbs. WATER SOLUBLE BAGS
SEE ATTACHED FOLDER FOR USE INSTRUCTIONS

Active Ingredients: (% by weight)

Bifenazate: Hydrazine carboxylic acid, 2-(4-methoxy-[1,1'-biphenyl]-3-yl) 1-methylethyl ester	50%
Inert ingredients	50%
Total	100%

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

FIRST AID

- IF IN EYES:**
- Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.
 - Remove contact lens, if present, after the first 5 minutes, then continue rinsing eye.
 - Call a poison control center or doctor for further treatment advice.

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 call the following telephone numbers for emergency medical treatment.

CROMPTON EMERGENCY PHONE	800-292-5898
SAFETY DATA AND INFORMATION	203-573-3303
TRANSPORTATION EMERGENCY (CHEMTREC)	800-424-9300

EPA REG. NO. 400-503
EPA EST. NO. 33967-NJ-1
EPA EST. NO. 7874-NLD-1
006CM

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Middlebury, CT 06749

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Crompton
Uniroyal Chemical

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**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

CAUTION

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and Other Handlers Must Wear: Long-sleeved shirt & long pants; shoes plus socks. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters. This product is toxic to bees exposed to direct treatment but residues on treated foliage are not toxic to bees. Do not apply this product while bees are actively visiting the treatment area.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

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 through any type of irrigation system.

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 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), 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.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI). The REI and exceptions are listed under the USE RATES AND RECOMMENDATIONS associated with each crop. Notify workers of the exception (including when entry is permitted for each of the tasks named in the exception).

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; shoes plus socks.

GENERAL INFORMATION

ACRAMITE-50WS is a wettable powder in water soluble bags. ACRAMITE-50WS is a selective miticide for the control of a variety of mite pests on the crops listed on this label. When used as directed and applied to the foliage, it provides quick knockdown through contact activity, and long residual control. Due to its unique chemistry, mode of action and selective nature, ACRAMITE-50WS is relatively inactive against beneficial/predaceous mites and insects and therefore is compatible with IPM and resistance management programs.

ACRAMITE-50WS is not systemic in action; therefore complete coverage of both upper and lower leaf surfaces and of fruit is necessary for effective control.

MIXING INSTRUCTIONS

Always reseal the outer bag in a manner that protects the remaining packets from moisture. Fill spray tank with 1/2 the desired amount of water. Then add the required number of water soluble bags of ACRAMITE-50WS with agitation running to fully disperse the product. Then fill the

tank with the remaining amount of required water.

When tank mixing, thoroughly mix the water soluble bags before adding other products in the following order: other water soluble bags, wettable powders, dry flowables, liquid flowables, liquids and emulsifiable concentrates. Always allow each tank mix partner to disperse fully before adding the next product. Do not add products that release free chlorine or contains boron with water soluble bag formulations. Boron and free chlorine will inhibit the solubility of the water soluble bag material causing it to precipitate and form insoluble residue inside the spray tank. ACRAMITE-50WS has been shown to degrade rapidly when mixed and stored with alkaline water of high temperature (122°F). To prevent degradation under alkaline conditions, solutions of ACRAMITE-50WS must be used promptly. A commercially available buffering adjuvant should be added to the solution to reduce the pH to a neutral/acidic range. It is also recommended that water hardness be reduced with any ammonium sulfate containing water treatment before adding any adjuvant or ACRAMITE-50WS.

Restrictions: Do not remove the water soluble bags from the container except for immediate use. Use the entire contents of one water soluble bag; do not break open to use partial contents of a bag. Do not sell individual water soluble packets. Do not handle the inner bag with wet hands or wet gloves. Do not allow pouches to become wet prior to adding to the spray tank. Tank mixtures are permitted only in those states where the tank mix partner is registered. When tank mixing, follow the label directions for most restrictive of label precautions and limitations.

Compatibility: To obtain broad spectrum insect control. ACRAMITE-50WS can be tank-mixed with other insecticide products. However, due to variations in water quality, e.g., hardness and pH, it is required that users conduct small scale trials under local conditions to ensure compatibility prior to any large scale use.

USE RATES AND RECOMMENDATIONS

To provide maximum residual control, application should be made as soon as mites appear. Use the low rate where mite infestations are light. The higher rate may be required for heavy infestations or for extended residual control.

When used as directed, ACRAMITE-50WS is effective for the control of a variety of mites species, especially spider mites, red mites and grass mites. NOTE: It is not effective against rust mites, broad mites and flat mites. ACRAMITE-50WS is primarily active on the motile stage of mites, but also has ovicidal activity against spider mites (*Tetranychus* species).

Restrictions: Do not plant another crop within 30 days after last ACRAMITE-50WS application due to chances of bifentazate residues showing up in rotational crops.

MITES CONTROLLED

Banks grass	Pacific spider
Brown almond	Pecan leaf scorch
Clover	Strawberry spider
European red	Two-spotted spider
McDaniel	Willamette

**BEARING CROPS
DOSAGE INSTRUCTIONS**

CROP	AMOUNT ACRAMITE-50WS PER ACRE ^(A)	MINIMUM GALLONS PER ACRE	TOTAL NUMBER OF SPRAYS PER SEASON	HARVEST DAYS AFTER APPLICATION (PHI DAYS)	RESTRICTED ENTRY INTERVAL (REI)
COTTON	0.75 - 1.5 lbs	20	1	60	12 hours
CUCURBIT VEGETABLES (See footnote B for crops in addition to those listed below) CUCUMBERS EDIBLE GOURDS ^(C) MUSKMELON ^(D) PUMPKIN SQUASH (summer ^(E) & winter ^(F)) WATERMELON	0.75 - 1.0 lbs	50	1	3	12 hours
FRUITING VEGETABLES (See footnote G for crops in addition to those listed below) EGGPLANT PEPPERS (all varieties of <i>capsicum</i> spp.) ^(H) TOMATOES (field grown) ^(I)	0.75 - 1.0 lbs	50	1	3	12 hours
GRAPES ^(J)	0.75 - 1.0 lbs	50	1	14	12 hours except 5 days for cane turning, tying and girdling of table grapes.
HOPS	0.75 - 1.5 lbs	50	1	14	12 hours
MINT	0.75 - 1.5 lbs	50	1	7	12 hours
OKRA	0.75 - 1.0 lbs	50	1	3	12 hours
POME. FRUITS: (See footnote K for crops in addition to those listed below) APPLES ^(L) CRABAPPLES PEARS QUINCE	0.75 - 1.0 lbs	50	1	7	12 hours
STRAWBERRIES ^(M)	0.75 - 1.0 lbs	100	2 ^(L)	1	12 hours
STONE FRUIT: (See footnote N for crops in addition to those listed below) APRICOTS CHERRIES (Sweet & Tart) NECTARINES PEACHES PLUMS/PRUNES	0.75 - 1.0 lbs	50	1	3	12 hours
TREE NUTS (See footnote O for crops in addition to those listed below) ALMOND	0.75 - 1.0 lbs	50	1	7	12 hours
FILBERT (Hazelnut) PECAN PISTACHIOS WALNUT (Black & English)	0.75 - 1.0 lbs	50	1	14	12 hours

NOTE: All above uses are for ground application. Apply ACRAMITE-50WS by ground equipment such as, but not limited to, compressed air, hydraulic, ground boom and air blast sprayers.

- (A) Each water soluble bag contains 0.5 lbs. of ACRAMITE-50WS
- (B) CUCURBIT VEGETABLES: Other crops which may be treated with ACRAMITE-50WS with the same use instructions are: Chayote (fruit) (*Sechium edule*), Chinese waxgourd (Chinese preserving melon) (*Benincasa hispida*), Citrus melon (*Citullus lanatus var. citroides*), Gherkin (*Cucumis anguria*), *Momordica* spp. (includes balsam apple, balsam pear, bitter melon, Chinese cucumber).
- (C) EDIBLE GOURD (*Lagenaria* spp.) (includes *hyotan* and *cucuzza*). Also (*Luffa acutangula* and *L. cylindrical*) which includes hechima and Chinese okra.
- (D) MUSKMELON (hybrids and/or cultivars of *Cucumis melo*) includes true cantaloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon.
- (E) SQUASH, SUMMER (*Cucurbita pepo var. melopepo*) includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini.
- (F) SQUASH, WINTER (*Cucurbita maxima: C. moschata*) includes butternut squash, calabaza, hubbard squash; (*C. mixta; C. pepo*) (Includes acom squash, spaghetti squash).
- (G) FRUITING VEGETABLES: Other crops which may be treated with ACRAMITE-50WS with the same instructions are: groundcherry (*Physalis* spp.), pepino (*Solarium muricatum*), tomatillo (*Physscles ixocarpa*)
- (H) PEPPER (*Capacium* spp.) includes bell peppers, chili peppers, cooking peppers, pimento, and sweet peppers.
- (I) TOMATOES: Use only on plants that will produce tomatoes greater than 1 inch in diameter when mature.
- (J) GRAPES – Exception: In addition to the early entry exceptions allowed by WPS, you may enter or allow workers to enter treated areas to perform all tasks other than tying, turning and girdling after 4 hours following applications, as long as at least long pants, long-sleeved shirts, shoes and socks are worn. Notify workers of the exception (including when entry is permitted for each of the tasks named in the exception).
- (K) POME FRUIT: Other crops which may be treated with ACRAMITE-50WS with the same instructions are:Loquat (*Eriobotrya japonica*), Mayhaw (*Crataegus aestivalis, C. opaca, and C.rufula*), Pear, oriental (*Pyrus pyrifolia*)
- (L) APPLES: Use maximum rates for European red mites.
- (M) STRAWBERRIES: Minimum period between applications is 21 days.
- (N) STONE FRUIT: Other crops which may be treated with ACRAMITE-50WS with the same instructions are:Plum (*Prunus domestica, Prunus* spp.), Plum, Chickasaw (*Prunus angustifolia*), Plum, Damson (*Prunus domestica* spp.) *insititia*), Plum, Japanese (*Prunus salcina*) and Plumcot, *Prunus armeniaca X.P. domestica*)
- (O) TREE NUTS: Other crops which may be treated with ACRAMITE-50WS with the same use instructions (14 day PHI) are: Beech nut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Hickory nut, Macadamia nut (bush nut).

**NON-BEARING CROPS
DOSAGE INSTRUCTION**

ACRAMITE-50WS use on non-bearing crops, i.e. those crops which will not bear fruit within one year of application, includes all the crops listed in the bearing crops dosage instructions plus crops listed below. These include fruit trees and berries in both commercial plantings and nurseries, including transplant uses but excluding residential areas. Listed non-bearing crops have a 4 hour restricted entry interval (REI)). Application is by ground equipment only. Additional non-bearing crops which may be so treated are:

CROP	MITES CONTROLLED	AMOUNT ACRAMITE-50WS PER ACRE	MINIMUM GALLONS SPRAY SOLUTION PER ACRE	TOTAL NUMBER OF SPRAYS PER YEAR
Berries (boysenberries, raspberries, etc.) Citrus (grapefruit, lemons, limes, oranges, tangerines, etc.) Currants Dates, Figs Persimmons	European red Two-spotted spider Pacific spider McDaniel Strawberry spider Citrus red Southern red	0.75 to 1.0 lbs..	50	1

STRATEGIES FOR RESISTANCE PREVENTION

When used as directed, ACRAMITE-50WS combines high activity on mites with safety to beneficial/predaceous mites and insects. In addition, the unique chemistry of ACRAMITE-50WS provides a means of controlling mites which have developed resistance to commonly used products. These properties can result in fewer miticide/insecticide applications as well as general reduction in the problems caused by resistance.

The following mite control strategies are recommended:

- Incorporate IPM techniques into your insect control program.
- Ensure thorough spray coverage to all foliage.
- Scout regularly and apply ACRAMITE-50WS as soon as infestations are observed. Do not wait until large populations have established.
- Always apply ACRAMITE-50WS at the recommended rates and according to label recommendations.
- Because of its selectivity, ACRAMITE-50WS can be used in conjunction with most biological control organisms available for mite control. ACRAMITE-50WS, when used as directed, does not adversely affect populations of beneficial/predaceous mites and insects including:

Common Name	Scientific Name
Predatory mite	<i>Amblyseius fallacis</i>
Predatory mite	<i>Phytoseiulus persimilis</i>
Western predatory mite	<i>Typhlodromus occidentalis</i>
Predatory mite	<i>Typhlodromus pyri</i>
Predatory mite	<i>Zetzellia mali</i>
Sevenspotted lady beetle	<i>Coccinella septempunctata</i>
Spider mite destroyer	<i>Stethorus punctum</i>
Common lacewing	<i>Chrysopa carnea</i>
Insidious flower bug	<i>Orius insidiosus</i>
Sixspotted thrips	<i>Scolothrips sexmaculatus</i>
Western flower thrips	<i>Frankliniella occidentalis</i>

The use of these organisms in conjunction with ACRAMITE-50WS is encouraged as a means of reducing the number of chemical applications.

STORAGE AND DISPOSAL

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

STORAGE: Store in a dry location.

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: Place water soluble bag directly into application equipment (see directions). Then dispose of empty outer bag in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

IMPORTANT NOTICE—Sellers warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with the directions and instructions specified on the label under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product, contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

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