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Systems Integration Group, Inc.

432-805-1776
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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number: 432-805
Date of Issuance: MAY 25 1999

Term of Issuance: Unconditional

Name of Pesticide Product: RUC-415 INSECTICIDE

NOTICE OF PESTICIDE:
 Registration
 Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):
AgrEvo Environmental Health
95 Chestnut Ridge Road
Montvale, NJ 07645

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA sec. 3(c)(5). Once a pesticide is registered, however, it is not regarded as permanently acceptable. Registration does not eliminate the need for continual reassessment of pesticides. If the Agency determines that, at any time, additional data are required to maintain in effect an existing registration, the Agency will require submission of such data under FIFRA section (3)(c)(2)(B).

1. Make the following label changes:
 - a. Revise the EPA Registration Number to read, "EPA Reg. No. 432-805".
 - b. Delete the phrase "and lasts up to six weeks" and "long lasting" from the 8th and 13th bullets on the front panel, or submit or cite data to support these claims.
 - c. Revise the first sentence under ENVIRONMENTAL HAZARDS to read as follows: "This product is extremely toxic to fish and aquatic invertebrates (shrimp, crabs)."

Signature of Approving Official:

Date:

EPA Form 8570-6
7505C
LEAHY
5/14/99

- d. Insert the following bee hazard statement under ENVIRONMENTAL HAZARDS: "This pesticide is highly toxic to bees exposed to direct treatment. Do not apply this product while bees (pollinating) are actively visiting the treatment area."
- e. After the ENVIRONMENTAL HAZARDS section and before the DIRECTIONS FOR USE, insert a PHYSICAL OR CHEMICAL HAZARDS section with the following text: "Do not use RUC-415 INSECTICIDE sprays in conduits, motor housings, junction boxes, switch boxes, or other electrical equipment because of possible shock hazard."
- f. Under DIRECTIONS FOR USE, after the general misuse statement, insert the following: "Not for use on plants grown for sale or other commercial or research purposes." Or, alternatively, you may place the following statement on the front panel: "For Residential Use Only."
- g. Revise the fourth sentence following "NOTE" under GENERAL PEST CONTROL to read, "Do not apply this product to edible crops."
- h. "Crawl spaces" generally denotes an indoor location; therefore, delete crawl spaces from the list of outside surfaces to which this product may be applied.
- i. Delete all claims of control of deer ticks, a Lyme Disease vector, or submit/cite efficacy data supporting control of this public health pest.
- j. Because it is generally not feasible for homeowners to accurately measure quantities less than 1/8th teaspoon without special equipment, product bearing mixing instructions to measure quantities less than 1/8 teaspoon must be sold with a measuring device to enable the user to accurately mix the concentrations listed in the directions for use. Otherwise, delete directions that require the user to measure quantities less than 1/8 teaspoon.
- k. In the pest table, revise "Plant Pests" to read "Ornamental Plant Pests."
- l. In the application instructions for ornamentals, replace the phrase "Repeat as necessary" with more specific directions that enable the user to determine when retreatment is indicated.
- m. In the application instructions for flies, midges, and mosquitoes, provide instructions to enable the user to determine when retreatment is indicated.
- n. Under the directions for use with hose-end sprayers, ensure that in final printed labeling the terminology used in this section is consistent with the equipment available to homeowners ("dial" versus "lever", safety tab "out" versus safety tab "on", etc.).
- o. In the directions for use with hose-end sprayers, under "Application Instructions" move the paragraph that begins, "To stop spraying, turn the control valve . . ." to a location immediately after the paragraph numbered 3 above, and number this paragraph 4.
- p. Under the subheading "refillable sprayer", revise the fifth sentence of the second paragraph to read as follows: "Use when wind is calm to avoid spray drift and blow back."

- q. In the directions for use, revise the retreatment interval for "Lawns" under "hose-end sprayers", to be consistent with the retreatment statement for lawns under "hand-held sprayers", e.g., "Repeat treatment as necessary at 4 to 6 week intervals."
- r. In the Storage and Disposal box, add the following statement: "Do not contaminate water, food or feed by storage or disposal." Also, provide instructions for what to do with left-over product and excess mix.
- s. We note the use of unit packaging. Will the spray bottles sold with the product also bear labeling?

2. Submit two copies of the revised final printed label for the record.

Based on the acute toxicity profile for the cited product, the acute toxicity profile for this product is as follows:

ACUTE DATA	GRN	TOX CAT.	CLASSIFICATION
Acute Oral	§81-1	IV	Acceptable
Acute Dermal	§81-2	IV	Acceptable
Acute Inhalation	§81-3	III	Acceptable
Primary Eye Irritation	§81-4	IV	Acceptable
Primary Skin Irritation	§81-5	IV	Acceptable
Dermal Sensitization	§81-6	Non-Sensitizer	Acceptable

A stamped copy of the label is enclosed for your records.

George T. LaRocca
 Product Manager (13)
 Insecticide Branch
 Registration Division (7505C)

Enclosure

PRECAUTIONARY STATEMENTS
Hazards To Humans & Domestic Animals
Caution

Harmful if inhaled. Avoid breathing vapor or spray mist. Contact with product may result in transient tingling and reddening of the skin. Remove contaminated clothing and wash before reuse.

Food utensils such as spoons and measuring cups must not be used for food purposes after use in measuring pesticides. Allow spray to thoroughly dry before allowing children or pets to enter the treated area.

Environmental Hazards

This product is extremely toxic to fish. Do not apply directly to water. Use with care when applying in areas adjacent to any body of water. Do not contaminate water when disposing of equipment washwater.

DIRECTIONS FOR USE

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

SHAKE WELL BEFORE USE

GENERAL PEST CONTROL

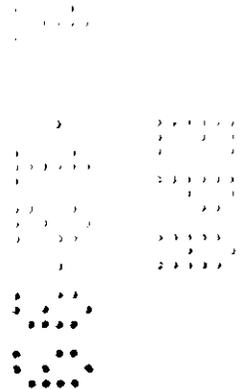
RUC-415 will provide effective knockdown and long residual control of the pests listed on this label. RUC-415 does not damage paints, plastics, fabrics or other surfaces where water alone causes no damage.

NOTE: Do not use water based sprays of RUC-415 in conduits, motor housings, junction boxes, switch boxes, or other electrical equipment because of possible shock hazard. Thoroughly wash out spray equipment with detergent and warm water before and after use. Do not mix this product with oil. Do not apply this product to edible crops. Do not allow adults, children or pets on treated areas until spray has dried. Keep out of fish pools or other bodies of water. Do not treat vegetable gardens.

In New York State, this product may not be applied to lawns that directly border coastal marshes. For control of turf insects other than fleas and ticks in New York State, a second application may be made after two weeks if target insect activity persists.

RUC-415 may be applied to and around outside surfaces of residential buildings and structures such as:

- | | |
|--------------|--------------------------------------|
| crawl spaces | lawns and grassy areas |
| decks | ornamental plantings and shade trees |
| driveways | patios |
| eaves | refuse dumps |
| fences | walkways |
| foundations | walls |
| garages | window and door frames |



Dilution Chart:

Pests	Amount of RUC-415 Per Gallon of Water	Amount of RUC-415 Per 1/2 Gallon of Water	Amount of RUC-415 Per Quart of Water
<u>Plant Pests:</u> armyworms, bagworms, canker worms, cutworms, elmleaf beetles, flea beetles, grasshoppers, gypsymoth larvae, adult Japanese and June beetles, lacebugs, leafhoppers, leafrollers, leaf skeletonizers, loopers, oakworms, plantbugs, pine moths, sawfly larvae, spanworms, stinkbugs, tent caterpillars, treehoppers, webworms	1/4 teaspoon	1/8 teaspoon	1/16 teaspoon
<u>Lawn Pests:</u> ants, armyworms (including fall, yellow-striped, etc.), bear tick, billbugs (adult), black legged tick, boxelder bugs, brown dog ticks, centipedes, chiggers, chinch bugs, clover mites, cockroaches, crickets, cutworms, darkling ground beetles, deer tick, digger wasps, essex skipper, field crickets, firey skipper, fire ants, flea beetle, fleas, grasshopper, Japanese beetle (adult), lawn moths, leafhoppers, lone star tick, mealybugs, mole crickets (aids in control), silverfish, scorpions, silverfish, firebrats, sod webworms, sowbugs, spiders, spittlebugs, springtails, ticks, turfgrass weevil, vegetable weevils, western black legged tick	1 teaspoon	1/2 teaspoon	1/4 teaspoon
<u>Perimeter Pests:</u> ants, bear ticks, black legged ticks, carpenter ants, centipedes, chiggers, crickets, deer ticks, field crickets, grasshoppers, pillbugs, scorpions, sowbugs, spiders, springtails	1.5 tablespoons 4 1/2 teaspoons	2.5 teaspoons	1 1/3 teaspoons

USE WITH PRESSURIZED OR OTHER HAND-HELD SPRAYERS

Mixing Directions: When diluting RUC-415, first add one half of the water to the sprayer; add the proper amount of RUC-415 (see dilution chart), close the sprayer and shake well for 5 to 10 seconds; then slowly add the remaining water. Shake the sprayer before use. Mix only as needed.

Application Instructions:

PERIMETER TREATMENTS: To help prevent infestation of buildings by pests, apply RUC-415 where pests are active and may find entrance. For example, treat a band of soil or lawn up to 6 – 10 feet wide around and next to buildings and treat the building foundation to a height of 2 to 3 feet. Apply as a coarse spray at the rate of 1 1/2 tablespoons RUC-415 per gallon of water and adequately cover 1,000 sq. ft. Thoroughly wet the barrier area.

ORNAMENTALS: To control plant pests, mix 1/4 teaspoon of RUC-415 per gallon of water and spray foliage thoroughly. Thorough coverage is important. Apply a wetting spray to upper and lower leaf surfaces. Be sure to penetrate dense foliage to wet leaves, trunk and branches but do not allow run-off to occur. Treat when pests first appear. Repeat as necessary.

LAWNS: Mow lawn and water thoroughly 1 to 2 days before treatment. Heavy watering should then be withheld for 2 to 3 days after treatment. Mix 1 teaspoon of RUC-415 per gallon of water. Apply one gallon of diluted product per 1,000 sq. ft. Treat when insects first appear. Spray lawn using a slow, even sweeping motion ensuring coverage of entire lawn surface. Spray under ornamental plants, shrubs and trees. Repeat treatment as necessary at 4 to 6 week intervals. Do not attempt to control pests in lawns by spot treating.

FIRE ANTS: Mix 3 tablespoons of RUC-415 per gallon of water in a watering can. Spinkle over and around each mound. Apply 1 gallon of diluted product per mound to thoroughly wet the area. More or less than 1 gallon of diluted product can be used depending on the size of the mound. Wait 7 to 10 days, then retreat if necessary. Do not disturb mounds before treatment. Do not use high pressure sprays. NOTE: For best results, apply in cool weather (65 - 80°F) or in early morning or late evening hours. Treat new mounds as they appear.

FLIES, MIDGES, and MOSQUITOES: Spray outside surfaces of doors, screens, window frames or where ever these insects may enter. Also, spray surfaces around light fixtures on porches, in garages and other places where these insects alight or congregate.

SCORPIONS: Remove accumulations of lumber, firewood and debris. Before stacking firewood or lumber, apply RUC-415 Insecticide to surfaces immediately below and around such materials. DO NOT TREAT FIRE WOOD.

RESIDUAL SPRAY: For long-lasting control of **ants, cockroaches, crickets, spiders, flies, wasps, hornets, bees, killer bees, yellow jackets and mosquitoes**, application of RUC-415 can quickly reduce heavy pest infestations on outside surfaces. Mix 1 1/2 tablespoons of RUC-415 to one gallon of water. Use a low pressure system with a pinpoint or variable pattern nozzle, such as a 1 or 2 gallon hand pump sprayer. Apply the spray mixture to areas such as buildings, porches, screens, window frames, eaves, patios, garbage dumps, garages and cracks and crevices along walkways, window and door frames or other areas where insects may congregate or can gain entrance to the building.

USE WITH HOSE-END SPRAYERS

Mixing Directions

{For Single Use Hose-End Sprayer}: Fill sprayer bottle halfway with water, then add entire contents of vial (bottle, package) to sprayer bottle. Add water to fill bottle. Tightly screw the sprayer head onto the hose, then screw the filled sprayer bottle onto the sprayer head. Shake well. Use entire contents of bottle. Do not store diluted material.

{For Refillable Hose-End Sprayers}: Given the wide variety of sprayers available, it is difficult to give universal mixing instructions. Some degree of calculation by the user is necessary. The following are fixed recommendations from which extrapolation can give specific requirements for the user's equipment.

1. Calculate dosage (amount of RUC-415 and application rate setting for sprayer). Based on intended use (ornamentals, lawn or perimeter), calculate amount of RUC-415 to add to sprayer jar using the following examples.
2. Prepare sprayer by filling the sprayer bottle halfway with water. Then add calculated amount of RUC-415 to sprayer bottle. Add water to fill bottle. Tightly screw the sprayer head onto the hose, then screw the filled sprayer bottle onto the sprayer head. Shake well.

Examples

Ornamentals: add 4 tablespoons of RUC-415 to 32 oz. (1 quart) sprayer jar. Set sprayer dial to the 2 tablespoon per gallon rate of spray.

Lawn: add 8 tablespoons of RUC-415 to 32 oz. (1 quart) sprayer jar. Set sprayer dial [**lever**] at 2 tablespoons (1 oz.) per gallon rate. Yields 32 gallons of spray, treats 1,000 square feet of lawn.

Perimeter Spray: add 1 1/2 tablespoons of RUC-415 to 32 oz. (1 quart) sprayer jar. Set dial [**lever**] to the 8 tablespoons (4 oz.) per gallon rate. Yields 8 gallons of spray, treats 1,000 sq. ft. of perimeter.

Application Instructions:

1. Make sure the hose-end sprayer is firmly connected to the hose.
2. Make sure the **[safety tab is out (on) and]** sprayer is in the OFF position. Turn water supply on at the faucet. For best results, turn hose faucet to maximum. Water pressure will build in the hose.
3. To apply product, **[push safety tab in (move safety tab to off position) and]** turn the control valve **[lever, dial]** to the ON position. Water and product are now being mixed at the proper rate.

LAWNS: To control *ants, armyworms, chiggers, chinch bugs, crickets, cutworms, grasshoppers, mosquitoes, sod webworms, sowbugs and ticks*, spray when pests first appear. Retreat as needed. For *sod webworms*, delay watering or mowing the treated area for 12 to 24 hours after treatment.

Single-Use Sprayer - Apply evenly over 6,000 square feet of lawn.

Refillable Sprayer - Divide the lawn into 1,000 sq. ft. areas (20' x 50'). Use full sprayer jar – 30 gallons of diluted product on each divided 1,000 sq. ft. area.

Spray grass starting at the edge of the lawn furthest from the faucet. Walk backwards away from spray mist toward faucet. This avoids contact of shoes and hose with treated grass. Always point away from applicator. Use when wind is calm to avoid splash back. Sweep sprayer left and right to ensure an even coverage

To stop spraying, turn the control valve **[lever, dial]** to the OFF position. Turn off water at the faucet. To relieve water pressure in hose, turn control valve **[lever, dial]** to the ON position before removing from the garden hose.

ALLOW SPRAY TO THOROUGHLY DRY ON LAWN BEFORE PERMITTING ANIMALS OR CHILDREN TO ENTER TREATED AREA.

WHEN/WHERE TO SPRAY: To avoid drift, spray on calm days. DO NOT spray near fish ponds, streams or rivers as this product is toxic to aquatic life. DO NOT spray food crops. DO NOT spray plants in the middle of the day in hot summer weather (i.e. above 85°F) as spray may burn the plants. For best results, spray when insects or damage are first observed.

ORNAMENTALS AND HEDGES: To control *aphids, bagworms, eastern tent caterpillar, fall webworms, grasshoppers, mites, mosquitoes, orange striped oakworm, spittle bugs, whiteflies, yellownecked caterpillar, cutworms, leafhoppers, mealybugs, mimosa webworms, redhumped caterpillar and thrips (exposed)*: Apply spray thoroughly to all parts of hedges and bushes. Be sure to cover trunks, branches, inside and outside leaves. When spraying leaves, be sure to spray both upper and lower surfaces. Spray to penetrate dense foliage but avoid over spraying to the point of excessive runoff. To prevent being hit by spray, do not apply to overhead areas. Treat when pests appear and repeat at 7 to 10 day intervals, if needed.

STORAGE & DISPOSAL

Storage: Mix as needed. Store in original container in secured dry storage area.

Container Disposal: Securely wrap container in several layers of newspaper and discard in trash.

NOTICE: Buyer assumes all responsibility for safety and use not in accordance with directions.