



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

EPA Reg. Number:

432-773

Date of Issuance:

10 MAY 1995

Term of Issuance:

Conditional

Name of Pesticide Product:

Bioresmethrin ULV

NOTICE OF PESTICIDE:

Registration  
 Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Roussel Uclaf Corporation  
95 Chestnut Ridge Road  
P.O. Box 30  
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 conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.

2. Make the following label changes:

- a. Revise the EPA Registration Number to read, "EPA Reg. No. 432-773".
- b. Change the statement, "Pesticide applications xxx operation.", to read "Coarse wet sprays or crack and crevice treatments are permitted in non-USDA inspected facilities while they are in operation."
- c. Change the statement, "After space spraying in USDA inspected plants xxx Potable water.", to read "After space spraying in food processing plants xxx potable water.". The procedure is the same in both USDA and non-USDA inspected plants. Delete the statement, "In non-USDA facilities, clean appropriately."

Signature of Approving Official

151  
Richard P. Keigwin, Jr.

Date

10 MAY 1995

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

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

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

Sincerely,

15/

Richard P. Keigwin  
Product Manager 10  
Insecticide & Rodenticide Branch  
Registration Division (7505C)



**BIORESMETHRIN ULV**  
 An Ultra Low Volume Insecticide for Use Against  
 Flying and Crawling Insects

Authorized by USDA for use in edible product areas of official  
 establishments operating under the Meat, Poultry, Shell Egg Grading  
 and Egg Products Inspection Program

**ACTIVE INGREDIENT:**

(1R-trans)-[5-(phenylmethyl)-3-furanyl]methyl 2,2-dimethyl-3-(2-methyl-1-propenyl)  
 cyclopropanecarboxylate\* .....

1.5%

**INERT INGREDIENTS\*\*** .....

98.5%

TOTAL .....

100.0%

\* Common chemical name: Bioresmethrin

\*\*Contains petroleum distillates

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

(TO THE USER: If you cannot read English, do not use this product until the label has been fully explained to you.)

**KEEP OUT OF REACH OF CHILDREN  
 CAUTION**

**PRECAUTIONARY STATEMENTS  
 Hazards to Humans and Domestic Animals**

Caution: Harmful if inhaled or absorbed through skin. Avoid breathing spray mist and contact with skin, eyes and clothing. Remove contaminated clothing and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling.

**STATEMENT OF PRACTICAL TREATMENT**

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth.. Get medical attention.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention.

ACCEPTED  
 with COMMENTS  
 in EPA Letter Dated

**10 MAY 1995**

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

432-773

NET CONTENTS:

EPA REG. NO. 432-

EPA Est. No.

## DIRECTIONS FOR USE

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

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### STORAGE AND DISPOSAL

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

**STORAGE:** Store upright at room temperature. Avoid exposure to extreme temperatures. In case of spill or leakage, soak up with an absorbent material such as sand, sawdust, earth, fuller's earth, etc. Dispose of with chemical waste.

**CONTAINER DISPOSAL:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other approved state and local procedures. For container disposal one gallon and under: Do not reuse container. Wrap original container in several layers of newspaper and discard in trash.

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

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This concentrate is designed for use UNDILUTED in ULV sprayers, such as Actisol<sup>®</sup>, that give particles of aerosol size. It can also be DILUTED with oils, which meet Food Additive Regulation (31 CFR 172.884) for use in mechanical misting equipment which give larger particles. It can also be diluted with oil as specified and applied as a contact spray with mechanical misting equipment or Actisol<sup>®</sup> equipment. This product may be applied indoors or outdoors as a space, area or contact spray.

### RECOMMENDED INDOOR USE AREAS:

|                        |                          |                            |
|------------------------|--------------------------|----------------------------|
| Bakeries               | Horse Barns              | Restaurants                |
| Beverage Plants        | Hospitals                | Schools                    |
| Canneries              | Hotels                   | Ships' Holds               |
| Cattle Barns           | Industrial Installations | Storage Bins               |
| Dairies                | Meat Packing Plants      | Stored Food in Multi-      |
| Dried Food Products in | Mills                    | Walled Paper or Cloth Bags |
| Storage or Processing  | Mobile Homes             | Supermarkets               |
| Flour Mills            | Motels                   | Swine Houses               |
| Food Processing Plants | Nursing Homes            | Theaters                   |
| Grain Elevators        | Office Buildings         | Truck Trailers             |
| Granaries              | Poultry Houses           | Warehouses                 |
| Homes                  | Railroad Cars            | Zoos                       |

IN HOSPITALS: Remove patients prior to treatment. Ventilate rooms for two hours before returning patients.

### INDOOR USE

The use of this product in commercial food processing or food handling establishments (bakeries, beverage plants, canneries, food processing plants, hospitals, hotels, industrial installations, meat packing plants, restaurants, schools, supermarkets and warehouses) should be confined to time periods when the plants or facilities are not in operation. Pesticide applications are permitted in non-USDA inspected facilities while they are in operation. Exposed food should be removed or covered prior to application. Food processing equipment, surfaces and utensils should be removed or covered before treatment and thoroughly cleaned before reusing. All shelves and drawers should be allowed to dry and covered with new newspaper. DO NOT apply directly to food or foodstuffs.

Avoid overapplication, treatment of surfaces subject to intense sunlight and direct application to working radiators or other heated sources.

**SPACE SPRAY APPLICATION:** To kill adult and accessible stages of:

|                 |              |                    |            |
|-----------------|--------------|--------------------|------------|
| ants            | clover mites | flies <sup>1</sup> | silverfish |
| boxelder bugs   | cockroaches  | gnats              | sowbugs    |
| carpet beetles  | crickets     | hornets            | spiders    |
| centipedes      | earwigs      | millipedes         | ticks      |
| cheese mites    | firebrats    | moths              | wasps      |
| cheese skippers | fleas        | mosquitoes         | waterbugs  |

<sup>1</sup>including, but not limited to, cluster, coffin, house, fruit, phorid, stable, vinegar

and the following common stored product pests:

|                        |                     |                           |
|------------------------|---------------------|---------------------------|
| angoumois grain moths  | drugstore beetles   | Mediterranean flour moths |
| cadelles               | flat grain beetles  | red flour beetles         |
| cigarette beetles      | grain mites         | rice weevils              |
| confused flour beetles | granary weevils     | saw-toothed grain beetles |
| dark mealworms         | Indian meal moths   | spider beetles            |
| dried fruit beetles    | lesser grain borers | yellow mealworms          |

Extinguish all flames in the area to be treated. Close room and shut off all air conditioning and ventilating equipment. Apply **UNDILUTED** at the rate of 0.33 fluid ounces per 1,000 cubic feet of space treated with mechanical aerosol generator, such as Actisol®, or a fogger adjusted to deliver aerosol droplets (30 microns or less). Direct spray upwards towards the corners of room and ceiling. Vacate room and leave closed for 15 to 30 minutes. Ventilate thoroughly prior to re-entry. Sweep up and destroy fallen insects. Repeat as necessary.

**TREATMENT OF STORED FOOD AREAS:** Foods in multi-walled or cloth bags stored in warehouses, storage rooms, flour mills, grain elevators and granaries. To control the accessible stages of:

|                           |                           |                   |
|---------------------------|---------------------------|-------------------|
| angoumois grain moths     | saw-toothed grain beetles | grain mites       |
| cadelles                  | yellow mealworms          | granary weevils   |
| confused flour beetles    | dark mealworms            | cigarette beetles |
| Indian meal moths         | cheese mites              | red flour beetles |
| Mediterranean flour moths | cheese skippers           | cockroaches       |
| rice weevils              |                           |                   |

Infested stored products should be destroyed, fumigated or treated by other effective methods using an approved product intended for this purpose. Avoid contamination of exposed food and foodstuffs in the areas by removing before spraying. First disperse Bioresmethrin ULV directly into cracks and crevices, corners, under pallets and around stacks of packaged goods directly contacting as many insects as possible. Then apply as a space spray at a dosage of 0.33 fluid ounces per 1000 cubic feet of room space. Leave the treated spaces closed for one hour and ventilate before reentry. In homes, dispose of all infested products. The shelves and drawers cleaned and thoroughly sprayed so as to contact all pests. All shelves and drawers should be allowed to dry and covered with new shelf paper before reuse. Repeat application as necessary for insect control.

**ACTISOL® SPRAY EQUIPMENT TREATMENT:**

**DEEP HARBORAGE:** To kill bees, wasps, yellow jackets and hornets, carpenter bees, carpenter ants, termites, cockroaches, spiders and other pests listed above. Treat wall voids, insect tunnels, boxed beams and other hollow elements of construction, using **UNDILUTED** product through Actisol® units or similar equipment, inject void for 5 - 10 seconds followed by sufficient air to pressurize the void.

**CRACK AND CREVICE TREATMENT:** For treatment of ants, bedbugs, carpet beetles, centipedes, cockroaches, crickets, earwigs, hornets, millipedes, mites, silverfish, sowbugs, spiders, scorpions, wasps, waterbugs and yellow jackets. Crack and crevice treatments with Actisol® equipment or similar equipment, using UNDILUTED product, represent a one second injection into openings, seams, holes, etc. Applications may be made in restaurants and all non-USDA inspected food handling establishments while the facility is in operation taking care not to contaminate food or food handling surfaces. Apply spray into cracks and crevices of walls and floors where insects may hide.

**CONTACT OR SURFACE SPRAY APPLICATION:** To control accessible stages of ants, boxelder bugs, carpet beetles, centipedes, cockroaches, crickets, earwigs, fleas, silverfish, spiders, wasps and hornets, and waterbugs. Mix 6 fluid ounces of Bioresmethrin ULV with 30 fluid ounces of oil diluent to achieve a concentration of 0.25% bioresmethrin. Apply as a coarse droplet spray using approximately one gallon per 1000 square feet of area to be treated. Spray walls, floors and other surfaces of bins and storage and handling areas thoroughly, being especially careful to treat cracks, crevices and similar insect hiding places. Treat unloading, handling and process areas and inside conveying, processing and handling equipment. Spray thoroughly around the base of heavy machinery and equipment. Spray insects directly when possible.

**ANIMAL QUARTER USE** (Cattle barns, horse barns, poultry houses, swine houses, zoos): Apply DILUTED product as a space spray through conventional fogging or spraying equipment, including Actisol® equipment. Remove animals before spraying facilities. To control fleas, flies, gnats, mosquitoes and moths. Mix one fluid ounce of Bioresmethrin ULV with 5 fluid ounces of oil diluent. Apply at the rate of two ounces per 1000 cubic feet of space. Direct spray towards the upper portions of the enclosure filling the room with mist. Vacate area and keep closed for at least 15 minutes. Ventilate thoroughly before reoccupying. Repeat treatment if reinfestation occurs.

**DOMESTIC PET USE:** To control fleas and ticks in domestic animals' resting places: Remove and destroy animal's old bedding. Spray sleeping quarters freely, being especially careful to spray into cracks and crevices. Allow spray to dry and replace with clean bedding. DO NOT spray animals directly, use only an approved EPA on-animal pest treatment. Repeat as necessary.

**FOR IN-TRANSIT PROTECTION:** Clean and spray truck beds and trailers, railroad cars, and ships' holds before loading. Thoroughly treat walls and floors with UNDILUTED product. Apply lightly to each layer of cartons or containers as they are stacked.

**TREATMENT OF STORED GRAIN:** To control accessible stages of Indian meal moths and Angoumois grain moths. Apply UNDILUTED product to the surface of binned grain at a rate of one gallon per 1000 square feet. Apply at monthly intervals with the first appearance of moths and continue until early fall. In severe infestations, break up webbing with a rake before spraying and make a second application in two weeks.

**TREATMENT OF FLYING INSECTS' RESTING PLACES:** To aid in the control of flies, gnats, mosquitoes and moths. Treat walls, ceilings, moldings, screens, door frames, window frames, beams and similar resting place with a dilution of 1 fluid oz of Bioresmethrin ULV with 5 ounces of oil diluent. Apply enough material to provide adequate coverage without excess run-off.

**AccounTable™ System**

|   |                                    | Food Processing Plants |              | Commercial |                | Residential |                |
|---|------------------------------------|------------------------|--------------|------------|----------------|-------------|----------------|
|   |                                    | Operating <sup>1</sup> | Nonoperating | Fabric     | Without Fabric | Fabric      | Without Fabric |
| AEROSOL<br>Actisol®<br>Spray<br>Equipment | Space Spray <sup>2</sup>           |                        | X            |            | X              |             | X              |
|   | Deep Harborage/<br>Crack & Crevice | X                      | X            | X          | X              | X           | X              |
| COARSE WET<br>SPRAY                       | Surface Spray                      | X                      | X            |            | X              |             | X              |
|   | Crack & Crevice                    | X                      | X            |            | X              |             | X              |

<sup>1</sup>Pesticide applications are permitted in non-USDA inspected facilities when they are in operation.

<sup>2</sup>When space spraying in food processing plants, foods should be removed or covered during treatment. After space spraying in USDA inspected plants, thoroughly wash all equipment, benches, shelving, etc. where exposed food will be handled, with an effective cleaning compound and rinse with potable water. In non-USDA facilities, clean appropriately.

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

Manufactured by:  
Roussel UCLAF Corporation  
95 Chestnut Ridge Road  
Montvale, NJ 07645

