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Ms. Michelle K. Quigley
McLaughlin Gormley King Company
8810 Tenth Avenue North
Minneapolis, MN 55427

Dear Ms. Quigley:

Subject: Esbiol Fogging Concentrate 2263
EPA Registration No. 1021-1453
Your Letter Dated October 21, 1987

The proposed amendment to the registration of the product cited above under the Federal Insecticide, Fungicide, and Rodenticide Act updating the label is acceptable subject to the comments listed below.

1. Add a footnote to the label ingredient statement indicating:

Contains petroleum distillates.
2. Submit an updated Confidential Statement of Formula to complete the records for this product. A blank copy of the form is enclosed for your use.

Sincerely yours,

Phil Hutton
Product Manager (17)
Insecticide-Rodenticide Branch
Registration Division (TS-767C)

Enclosure

10098:I:Tavano:H-10:KENCO:4/6/88:4/14/88:CB:VO:EK:CB
CONCURRENCES

| | | | | | | | | |
|---------|------------|--|--|--|--|--|--|--|
| SYMBOL | ORIGINATOR | | | | | | | |
| | TS767 | | | | | | | |
| SURNAME | Tavano | | | | | | | |
| DATE | 4/23/88 | | | | | | | |



ESBIOL® Fogging Concentrate 2263
For Use Undiluted or Diluted with Oil

8810 Tenth Avenue N., Minneapolis, Minnesota 55427

TELEPHONE (612) 544-0341

For Use in the Home, and Non-Food and Food Areas of: Food Processing Plants, Schools, Warehouses, Office Buildings, Theatres, Garages, Hotels, Motels, Kennels.

ACTIVE INGREDIENTS:

| | |
|--|--------|
| *d-trans-chrysanthemum monocarboxylic acid ester of d-2-allyl-4-hydroxy-3-methyl-2-cyclopenten-1-one | 0.928% |
| Other isomers - | 0.072% |
| **Piperonyl butoxide, technical | 2.000% |
| †N-Octyl bicycloheptene dicarboximide | 3.000% |

INERT INGREDIENTS:

94.000%
100.000%

*S-bioallethrin from ESBIOL®
**Equivalent to 1.60% (butylcarbityl)(6-propylpiperonyl) ether and 0.40% related compounds.
†MGK® 264, Insecticide Synergist
ESBIOL® - Registered Trademark of Roussel-Uclaf; Paris, France.

KEEP OUT OF REACH OF CHILDREN
CAUTION

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a Poison Control Center or physician. Do not induce vomiting because of aspiration hazard.

IF IN EYES: Flush with plenty of water. Get medical attention if irritation persists.

IF ON SKIN OR CLOTHING: Remove contaminated clothing. Wash skin with soap and warm water. Get medical attention if irritation persists.

IF INHALED: Remove victim to fresh air and apply artificial respiration if effects occur.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Harmful if swallowed or absorbed through skin. Avoid breathing vapors or spray mist. Wear a pesticide respirator jointly approved by the Mining Enforcement Safety Administration and the National Institute for Occupational Safety and Health under the provisions of 30 CFR Part 11. Contains petroleum distillate. If swallowed do not induce vomiting. Get immediate medical attention. Avoid contact with skin and eyes. In case of contact, immediately flush eyes or skin with plenty of water. Obtain medical attention if irritation persists.

Do not apply directly to food. In commercial food handling facilities, cover or remove any food and food processing equipment during application. Do not apply while food processing is underway. After space spraying in meat packing plants, bakeries and other food processing plants, wash all equipment, benches, shelving, etc. where exposed food will be handled, with an effective cleaning compound followed by a potable water rinse. In the home, all food processing surfaces and utensils should be covered during treatment, or thoroughly washed before use.

Remove pets, birds and cover fish aquariums before spraying.

Physical Hazards

Do not store near heat or open flame.

DIRECTIONS FOR USE

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

UNDILUTED APPLICATION

General: This product can be used undiluted in mechanical sprayers which produce particles of aerosol size, such as the LECO or MICRO-GEN.

To Kill Houseflies, Mosquitoes, Gnats and Small Flying Moths: Close room and shut off all air conditioning or ventilating equipment. Using a cold fog generator, apply at the rate of one-half (.5) ounce per 1,000 cu. ft. of space. Direct output from aerosol generator upwards toward upper corners of room and ceiling. Leave room closed for one half our. Ventilate room thoroughly before re-entry. Repeat as necessary.

To Kill Cockroaches, Rice Weevils, Sawtoothed Grain Beetles, Confused Flour Beetles, Black Carpet Beetles and Indianmeal Moth Larvae: Close room and shut off all air conditioning or ventilation equipment. Using a cold fog aerosol generator, direct discharge into areas suspected of harbouring these pests. Special attention should be paid to cracks, hidden surfaces under sinks, behind stoves and refrigerators, and wherever these pests are suspected of hiding. Spray until treated surfaces are moist with deposit. Leave room closed for one half hour. Ventilate room thoroughly before re-entry. Repeat as necessary.

DILUTED APPLICATION

General: This product can also be diluted 1 part to 1-1/2 (1.5) parts petroleum distillate and applied as directed below.

Space Spray to Kill House Flies, Mosquitoes, Small Flying Moths and Gnats: Close room and shut off all air conditioning and ventilating equipment. Apply with mechanical or compressed air sprayer or with fogger that gives small particle size. Direct spray upwards toward upper corners of room and ceiling. Apply at the rate of 0.5 to 1.0 fluid ounces per 1,000 cubic feet of space to be treated. Vacate room and leave closed for 10 to 15 minutes. Ventilate thoroughly prior to re-entry. Sweep up and destroy fallen insects. Repeat as necessary.

Contact or Surface Spray to Kill Cockroaches, Ants and Crickets: Apply with a sprayer that will give coarse wet droplets. Force spray into cracks and crevices in walls and floors, areas at base of machinery, behind cabinets, around pipes and openings, along baseboards and other insect harbourages. Use one gallon of spray per 1,000 sq. ft. of surface to be treated. For ants, spray trails and all points of entry into building. Spray ant nests directly with a soaking application. In all cases contact as many insects as possible with the spray. Repeat application as necessary for control.

To Kill Carpet Beetles: Directly spray as many insects as possible. Spray both interior and exterior of upholstered furniture. Both top and bottom of rugs and carpets should be sprayed thoroughly. Also treat shelves, closets, areas under furniture and wherever these insects are seen or suspected. Repeat as necessary.

To Kill Bedbugs: Spray mattresses thoroughly, especially around seams and tufts. spray bedstead, baseboards, floor boards and wall cracks and crevices. Allow spray to dry before contact. Repeat frequently.

To Kill Exposed Forms of Confused Flour Beetles, Sawtoothed Grain Beetles, Lesser Grain Borers and Rice Weevils: Find and destroy infested package goods. Remove all other items from pantry. Spray the shelves