

PM-13

Reg # 42737-8

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

1665-1805684
1655-1805684
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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:

42737-8

Date of Issuance:

APR 18 1995

Term of Issuance:

Conditional

Name of Pesticide Product:

FLAK 4-4

NOTICE OF PESTICIDE:

☒ Registration
☐ Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Vectec, Inc.
6984 Ventura Drive
Orlando, FL 32897

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 labeling changes listed below before you release the product for shipment:

a. Add the phrase "EPA Registration No. 42737-8"

b. Under **STORAGE AND DISPOSAL** add Storage add "avoid exposure to extreme temperatures."

Signature of Approving Official:

Date:

EPA Form 8570-6

CONCURRENCES

SYMBOL	42737-8						
SURNAME	DA						
DATE	4/13/95						

EPA Form 1320-1A (1/90)

Printed on Recycled Paper

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c. Under Environmental Hazards add "This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area."

d. In CHART NO. 1 and CHART NO. 2 change "0.007/0.007" to "0.007/0.021", "0.0035/0.0035" to "0.0035/0.0105" and "0.00175/0.00175" to "0.00175/0.00525".

e. Add the following precautionary text with respect to dermal sensitization: "May cause contact sensitization following repeated contact with skin in susceptible individuals.". These statements may be removed if the dermal sensitization study to be submitted indicates the product is not a sensitizer.

3. Commit to provide the Agency with an acceptable dermal sensitization study. We note in your fax dated April 12, 1995 Vectec Inc. has agreed to fulfill this data requirement within twelve (12) months from the date of this notice.

A summary review of your toxicity data follows:

The acute oral dermal, acute inhalation, primary eye irritation and primary skin irritation studies are acceptable/minimum and classified as guideline data. The dermal sensitization study is unacceptable and cannot be upgraded because a higher dose level was not applied at rechallenge and because no positive control data were included in the report.

ACUTE TOXICITY REVIEW

STUDY	MRID	CATEGORY	CLASSIFICATION
Acute Oral	42924201	III	Guideline
Acute Dermal	42924202	III	Guideline
Acute Inhalation	42924203	IV	Guideline
Eye Irritation	42924204	III	Guideline
Dermal Irritation	42924205	III	Guideline
Dermal Sensitization	42924206	---	Unacceptable

Attached is a copy of the Data Evaluation Record for the submitted acute toxicity studies.

4. Submit three (3) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

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If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 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.

Enclosures

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FLAK® 4-4

For Application only by Public Health Official and Trained Personnel of Mosquito Abatement Districts and Programs. An All Temperature, Quick knockdown, Low Odor, Non-Corrosive Synergized Synthetic Pyrethroid Adult Mosquitoes, in Residential, And Recreational Areas. Also for Use Against Biting and Non-Biting



ACTIVE INGREDIENTS:

Permethrin (3-phenoxyphenyl)methyl(+/-)
cis/trans 3-(2,2-dichloroethenyl) 2,2-
dimethyl cyclopropanecarboxylate - - - - 4.0%
Piperonyl Butoxide Technical
Equivalent to 80% (butylcarbitol)
(6-propylpiperonyl)ether and
20% related compounds - - - - 4.0%

INERT INGREDIENTS: - - - - 92.0%
* Contains a Petroleum Distillate Solvent. Total 100.0%

KEEP OUT OF REACH OF CHILDREN
CAUTION

VEC
6984 VE
ORLA

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EPA Reg. No. 42737-

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

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician or Poison Control Center immediately. Do not induce vomiting because of aspiration hazard. IF INHALED: Remove victim to fresh air. If not breathing give artificial respiration. IF IN EYES: Flush eyes with plenty of water. Get medical attention if irritation persists. IF ON SKIN: Remove contaminated clothing and wash affected area with soap and water. Get medical attention. NOTE TO PHYSICIAN: "Solvent presents an aspiration hazard. Gastric lavage is indicated if material was taken internally. Vomiting may cause aspiration pneumonia."

SEE BELOW FOR ADDITIONAL PRECAUTIONARY STATEMENTS

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing vapors or spray mist. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after using and before eating or smoking. Avoid contamination of food and feed.

ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated sites may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

PHYSICAL AND CHEMICAL HAZARDS

Do not use, pour, spill 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.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. **STORAGE:** Store product in its original labeled container in a cool, dry, locked place designated for such insecticides and out of reach of children. In case of spillage, soak up with absorbent material such as sawdust, or fuller's earth; sweep up and place in a labeled container and dispose of as follows. **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:** (Metal) 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. (Plastic) Triple rinse or equivalent. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

THERMAL AEROSOL FOGGING

TRUCK MOUNTED: Apply either undiluted (Chart No. 1) or diluted (Chart No. 2) with suitable Thermal Fogging equipment. Do not exceed the maximum rates. May be applied at speeds of 5 mph up to 20 mph. To reduce oil requirement and sludge buildup in equipment, use 100 second viscosity mineral "fog" oil. For use with hand carried and/or lawn mower loggers, use same rates of A.I. per acre. Do not wet foliage since certain oil base formulations may be phytotoxic. Do not fog when wind conditions exceed 5 miles per hour. Use a clean, well maintained and properly calibrated fogger. Fog Down wind.

CHART NO. 1 - FOR USE UNDILUTED

CONDITIONS AND RATES TO USE FLAK 4-4 UNDILUTED FOR MOSQUITO CONTROL					
Permethrin/PBO lbs. A.I./Acre	Application Rates Fluid Ounces per Minute				Fluid Ounces and milliliters per acre
	5 mph	10 mph	15 mph	20 mph	
0.007 / 0.007	9.0	18.0	27.0	36.0	3.0 (89 ml)
0.0035 / 0.0035	4.5	9.0	13.5	18.0	1.5 (44.5 ml)
0.00175 / 0.00175	2.25	4.5	9.0	9.0	0.8 (22.5 ml)

NON-THERMAL AEROSOL (COLD FOG)

FLAK 4-4 is recommended for application as an ultra low volume (U.L.V.) non-thermal aerosol in residential and recreational areas where these insects are a problem, such as athletic fields, golf courses, residential areas, and municipalities, gardens, parks, etc. Do not apply this product within 100 feet (30 meters) of lakes and streams, cropland, poultry ranges, or water supplies. For best results treat when mosquitoes are active, i.e., during the cool hours of the night or early morning is preferable. Repeat treatment as needed.

FLAK 4-4 U.L.V. Nonthermal Aerosol (Cold Fog) Applications. To control Mosquitoes, use any standard U.L.V. ground applicator capable of producing a nonthermal aerosol with a mass median diameter (MMD) of 10 to 20 microns. Apply the product at an average vehicle speed of 10 m.p.h. If a different vehicle speed is used, adjust the flow rate to 0.00175 to 0.007 pounds of Permethrin and the same amount of Butoxide per acre. Vary flow rate according to vegetation density and mosquito population. When populations are high, an accurate flow meter must be used to ensure proper application. Dilute with a suitable solvent such as mineral oil and apply so as not to exceed the rates shown in the first column of the previous table. The following charts represent ground U.L.V. applications. If an alternate dilution rate is used, adjust flow rate accordingly.

AS A BARRIER SPRAY USE A "BARRIER"

For use in non-thermal ULV portable backpack equipment apply UNDILUTED FLAK 4-4, applying the desired amount of FLAK 4-4 A.I. per acre. Apply as a Barrier spray. ULV particles of 50 to 100 microns mass median diameter in a 50 ft (15.2 m) band.

AERIAL APPLICATIONS

(The use of specially designed aircraft capable of applying ULTRA LOW VOLUME (ULV) may be considered necessary when conducted at the discretion of Public Health officials. Personnel engaged in OUTDOOR Mosquito & Biting Fly control programs should be trained in health hazard.)

CHART NO. 2 - DILUTE 1 PART WITH

AMOUNTS TO USE AFTER DILUTING 1 PART FLAK 4-4			
lbs./A.I. of Permethrin / PBO to Apply/Acre	Application Rates Fluid Ounces per minute		
	5 mph	10 mph	15 mph
0.007 / 0.007	27.0	54.0	81.0
0.0035 / 0.0035	13.5	27.0	40.5
0.00175 / 0.00175	6.8	13.5	20.3

BEST COPY AVAILABLE