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

OFFICE OF
PESTICIDES AND TOXIC
SUBSTANCES
MAY 29 1991

Mr. Robert V. Yocum
S.C. Johnson & Son, Inc.
1525 Howe Street
Racine, WI 53403-5011

Subject: Alternate formulas; Brochure: Flea Control Kit
Raid Flea Killer Plus
EPA Registration No. 4822-273
Submissions: March 9 and August 9, 1990;
January 30, 1991


The labeling referred to above, submitted in connection with Registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable. A stamped copy is enclosed for your records.

The formula statements dated March 9, 1990 and January 29, 1991 are acceptable as alternate formulas under the registration and have been included in our files. Confirm that your supplier of Florasynth Fragrance Z-6080 has furnished its complete composition for our records.

As product labels are reprinted, include the following changes:

- a. Relocate the qualifiers regarding piperonyl butoxide and presence of sodium nitrite as substatements to the ingredient statement. Based on your source products, declare 0.90% (butyl carbityl) (6-propyl-piperonyl) ether and 0.10% related compounds and specify sodium nitrite.
- b. Correct the spelling of cyclopropanecarboxylate.
- c. Correct the chemical name for (s)-methoprene to: xxx trimethyl-2,4-dodecadienoate xxx.
- d. Under the disposal instructions, add - Do not puncture or incinerate.

Sincerely,


Richard F. Mountfort
Product Manager 10
Insecticide & Rodenticide Branch
Registration Division (H7505C)

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The Raid Flea Control Program

Your Guide to Solving Flea Problems in the Home

The Raid Flea Control Program helps you to control fleas in your home...by treating your home and your pet together to prevent reinfestation.

Understanding the Enemy

Similar to the moth, there are four stages to the flea lifecycle: the egg, the larva, the pupa, and the adult, biting flea (Illustration).

Home flea problems usually start outdoors. The adult flea hops onto the pet or onto people and is carried into the house. Once fleas attach to the pet's coat, they begin to lay eggs there. These eggs drop off your pet and develop into fleas that infest your home. They can live in carpets, furniture, pet bedding, and even cracks in hard wood floors.

A mature female flea can lay 20 to 30 eggs a day for weeks. These eggs develop into larvae within one to three days. The larvae spin a protective cocoon for themselves and enter the pupal stage.

The pupal stage makes eliminating fleas particularly difficult -- the cocoon acts like a shield protecting the pupa from insecticides until it emerges as an adult flea. When the adult flea finds its host, the life cycle repeats itself.

How The Raid Home Flea Control Program Works

Raid's Home Flea Control Program interferes with the flea life cycle. When used as directed, the three products will help you to control fleas in your home and on your pet. Plus, the products help to keep fleas from coming back. Here's how they work:

1. Raid Flea Fogger: Kills adult fleas. Kills hatching flea eggs. Plus, prevents hatching eggs (larvae) from becoming breeding adults. Keeps working for months after use.
2. Raid Flea Killer Plus Household Surface Spray: Kills adult fleas. Kills hatching eggs (larvae) for four months.
3. Raid Flea Spray for Pets: Kills and repels adult fleas. Kills flea eggs before they hatch. Keeps working to keep flea eggs from hatching for 30 days.

Instructions

For best results, use the program as directed. Follow specific-label directions on each label. Here are simple step-by-step instructions:

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ACCEPTED
with COMMENTS
in EPA Letter Dated
MAY 29 1991
Under the Federal Insecticide,
Fungicide, and Rodenticide Act
registered under EPA Reg. No.
4822-273

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1. Vacuum! A complete vacuuming of rugs, carpets, floors, furniture, and pet bedding will remove many of the adult fleas. After vacuuming remove the bag from the vacuum & dispose of it immediately (or empty non-disposable bags). Fleas can hatch inside the vacuum so removing the bag after vacuuming can help to prevent reinfestation. Also, wash any pet bedding to remove fleas or flea eggs (Illustration).
2. Use Raid Flea Killer Plus Household Surface Spray in all areas where your pet goes: under, behind, or on furniture, under tables, along walls, wherever you believe that fleas could live. Also, treat other areas where your pet spends time; like cars, campers, pens, or kennels (Illustration).
3. Use Raid Flea Fogger in every room where you believe there could be a flea problem. For best results, each fogger covers approximately an area of 20' x 15' with an 8' ceiling. You may need more than the foggers in this program to completely treat your home (Illustration of ideal fogger placements.)
4. Always check your pet for evidence of fleas before using a flea product. Excessive biting and scratching may be due to a skin irritation and not fleas. One method is:

Using your fingertips, separate the pet's hair, concentrating especially along the back where fleas often live. If fleas are present, you may see the flea itself or what appears to be black and white dandruff -- this could be dried blood and flea eggs.

Once you have determined that your pet has fleas, use Raid Flea Spray for Pets. One treatment works for 30 days to keep flea eggs from hatching. Repeat treatment of the pet every week or as often as seems necessary. Because your pet can be reinfested, it is important to continue to use Raid Flea Spray for Pets while there are still fleas in the house or yard (Illustrations).

5. Continue to use Flea Killer Plus Household Surface Spray as necessary to kill fleas that emerge from cocoons and those which may have been carried in from outside. While Raid Flea Fogger kills the adult fleas on contact and prevents the larvae from developing, it doesn't reach fleas already in the protective cocoon.

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Remember:

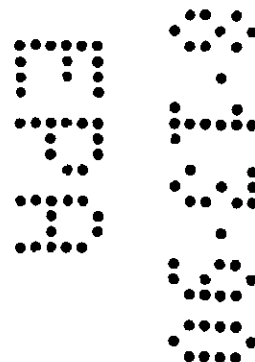
- o Treat both your home and your pet at the same time.
- o Treating outside where fleas live and where pets can be reinfested will also help to keep fleas under control.
- o Continue to use Flea Killer Plus Household Surface Spray to kill emerging biting fleas and fleas that are carried in from outside.
- o Vacuum regularly and dispose of or empty the vacuum bag immediately. Be sure to vacuum cracks or crevices where fleas hide, especially where pets sleep.
- o Check your pet often for fleas so that you can treat with Raid Flea Spray for Pets before the problem becomes too great.

If you have any questions, please write:

Carol Hanson
S.C. Johnson & Son, Inc.
Racine, WI 53403 USA

(Includes coupon for use on any Raid product)
(Includes coupon for a video on flea control)

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