Date: June 5, 1981

Subject: EPA REG. NO. 4822-141 JOHNSON WAX RAID FORMULA III FLYING

INSECT KILLER

Caswell # 25A, 83E, 670, 55

From:

Cheryl A. Peterson

IRB/TSS

83E

To:

Franklin D. R. Gee Product Manager (17)

kegistrant: S. C. Johnson & Son

1525 Howe Street

Racine: Wisconsin 53403

Artive Ingredients:

d-trans allethrin (homolog of Cinerin I)	0.150%
Resmethrin ()-(phenylmethyl)-furanyl)methyl	
2,2-dimethy1-3-(2-methy1-1-	
propenyl) cyclopropanecarboxylare	0.150%
refaced compounds	0.020%
recimical Piperonyl Butoxide	0.5005
Alomatic Petroleum Distillate	0.200%
Aliphatic Petroleum Distillate	1.000%
Inert Ingredients	07.040%

Background:

This product is registered for indoor use as a space spray against mosquitoes, roaches etc. The company has submitted an application for amended pesticide product registration involving a deletion of the eye hazard precautionary statement in the label text. A method of support has not been indicated, and acute oral, primary ocular irritation, primary dermal irritation and the acute inhalation studies have been submitted in support of the application.

Recommendations:

- 1. The acute oral, primary dermal irritation and primary ocular irritation studies are acceptable.
- 2. The acute inhalation study has been classified Core Supplementary Data. No acutal chamber concentration measurements or particle size data were reported.

3. Since the submitted ocular irritation studies indicate Toxicity Category IV classification for this product on the basis of eye hazard, IRB/TSS would have no objection on the basis of acute toxicological considerations to the adaptation of the proposed amendment.

Labeling:

The appropriate signal word for this product is CAUTION, as indicated by the applicant.

Review:

The following studies were conducted by the Warf Institute, Madison, Wisconsin for S. C. Johnson & Son on material identified as sample #3900 DI34-1, referred to in a letter from E. Mace dtd 4-8-81 as Raid Flying Insect Killer Formula III. They were received by EPA on 4-15-81, and are in Acc. No. 244998.

1. Acute Oral LD50-Rat. Dated: 8-1-74. S_udy No. 4080073.

<u>Procedure</u>: 6M, 6F albino rats each received oral exposure via stomach tube to 5 ml/kg, 10 ml/kg and 20 ml/kg test material. There was a 14-day observation period.

Kesults: No mortalities. Oral LD50 is greater than 20 ml/kg test material. -

Study Classification: Core Minimum Data (Animal weights were not given).

Product Classification: Tox. Cat. IV.

2. Primary Dermal Irritation-Rabbit. Dated: 8-1-74. Study No. 4080073.

Procedure: 6 albino rabbits (unspecified sex) each received 24-hr. occluded exposure to 0.5 ml test material on an abraded area and 0.5 ml on a nonabraded area of skin. Observations were made at 24 and 72 hrs.

. Results: Primary Skin Irritation Score equals zero. No irritation at any site.

Study Classification: Core Minimum Data.

Product Classification: Tox. Cat. IV.

3. Primary Ocular Irritation-Rabbit. Dated: 8-1-74. Study No. 4080073.

Procedure: 6 NZ albino rabbits each received a 2 sec. spray burst of test material from a distance of four inches. Observations were made at 24, 48 and 72 hrs. No. eyes were washed.

Results: No irritation in any eyes.

Study Classification: Core Minimum Data (No eyes were washed).

Product Classification: Tox. Cat. IV.

4. Primary Ocular Irritation-Rabbit. Dated: 8-1-74. Study No. 4080073.

Procedure: 6 NZ albino rabbits each received 0.1 ml. test material in one eye. Observations were made at 24, 48 & 72 hrs. No eyes were washed.

Kesults: No irritation in any eyes.

Sludy Classification: Core Minimum Data (No eyes were washed).

Product Classification: Tox. Cat. IV.

5. Acute Inhalation LC50- Rat. Dated: 8-30-74. Siddy No. 4080073.

Procedure: 10 M Sprague-Dawley rats each received 1-hr. exposure to a nominal concentration of 208.2 mg/l air. Airflow was maintained at 586 1/hr. Material was sprayed into the airstream constantly entering the test chamber directly from the pressurized container for approximately five seconds per minute per hour. There was a 14-day observation period with survivor sacrifice and necropsy. 10 additional rats werved as controls.

Results: No mortalities. LC50 is greater than a 1-hr. exposure to a nominal concentration of 508.2 mg/l air. Clinical signs included rubbing & blinking eyes & nose during exposure. Necropsy showed white foci on lungs, and dark colored lungs.

Study Classification: Core Supplementary Data (No actual chamber concentration measurements or particle size data were reported).





CLEAN, PLEASANT 00011 KILLS BUGS DEAD!

ACTIVE INGREDIENTS d-trans Allethrin fallyl homolog of Cinerin 1) 0 150', related compounds 0 012's Resmethrin (5-(phenylmethyl) U 150 c related compounds U U12-a Resmetricin [5-(pnenyimetriyit-3-furanyi]metriyit 2.2dimetriyi-3-(2-metriyi-1-properyit cyclopro-panecarboxviate* 0 150° c related compounds 0 020°; technica' piperonyi butoxide 0 500°; requivalent to 0 400°; of toutylcarbiyi-it6-propyloperonyitether and 0 100°; related compounds aromatic petroleum distillate 0 200°; aliphatic petroleum distillate 1 000°;

*Cisftrans isomers ratio max 30 cta) cis and min. 70 cta) trans INERT INGREDIENTS 97 968°c (Contains 0 100°c Sodium nitrite)

KEEP OUT OF REACH OF CHILDREN CAUTION

ISEE DIRECTIONS AND CAUTIONS ON BACK

NET WEIGHT 121/4 OZ.

FORKJENDUOZU

r remove tablon front of spray car. Look into hole of top of cap and turn cap until white mark appears. After use turn can until white mark disappears

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labering

Point spray nozzle away from face and press SHAKE BEFORE USING button, holding container as upright as possible

TO KILL FLYING INSECTS

FLIES MOSQUITOES, SMALL FLYING MOTHS, GNATS, WITH REIC THERE IS PLIES MUSUULITUES, SMALL PLYING MOTHS, GNATS With Raid there is no need to spray directly at flying insects — the mist in the art with all them. Close all doors and windows. Spray, Raid up into the air with a sweeping motion keeping about 3 keer from interior waits fabrics. Surniture, until room is filted with mist. Keep room closed for 15 minutes.

WASPS. Spray directly at stray wasps that enter building

TO KILL CRAWLING INSECTS

ROACHES, WATERBUGS SILVERFISH, CRICKETS Spray hiding places MUNCHES. WALERBUGS. BILVERFISH, WRICKETS Spray niging places such as baseboards and floor boards, moist places, openings around sinks drains and pipes, behind bookcases, cabinets and other storage areas, hitting as many insects as possible. Repeat as necessary.

ANTS Spray traits hills around window trames and openings around pipe and baseboards where ants crawl hitting as many as possible. Repeat a

FLEAS. Spray floors, floor coverings and sleeping quarters of pets. Repet spraying as often as necessary.

SPIDERS, CENTIPEDES, SOW BUGS. Spray webs and places where thes pests craw. Hit as many as possible. Repeat as necessary.

CARPET BEETLES His these bugs directly with spray on sections of find baseboards, shelves and underside of carpets. Repeat spraying at freque

BEDBUGS Spray baseboards moldings floor board Spray mattresse particularly around seams and lutis. Take beds apart and spray with 10 inc. Repeat spraying at frequent intervals

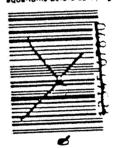
DISPOSAL

Do not reuse empty container wrap container and put in trash collection

PRECAUTIONARY STATEMENTS

PRECAUTIONARY STATEMENTS
HAZARD TO HUMANS AND DOMESTIC ANIMALS
CAUTION

Avoid contact with eyes in case of eye contact immediately flush with pier
of water. Get medical attention distribution persists. Do not remain in enclose
areas after use ventilate enclosed areas before returning. Av
areas after use ventilate enclosed areas before returning av
contamination of food and foodstuffs. Remove pets birds and cover to aquariums before spraying



PHYSICAL OR CHEMICAL

MAZARDS
Contents under pressue Do not use store near hear or open flame. Do puncture or incinerate containers posite to temperatures above:120°F # cause bursting

Johnson and RAID are Trademarks
For additional information write Carol Han S C JOHNSON & SON INC RACINE WISCONSIN 53403 U.S. A EPA Res No 4822 141 EPA Est No 4822 Wi-1





CLEAN PLEASANT 00011 KILLS BUGS DEAD!

ACTIVE INGREDIENTS difrans Allethrin (ally) homolog of Cinerin 11 0 150's related compounds 0 012's Resmethrin [S-ipnenylmethyli u 100°; related compounds u u12° nesmeinin (2-tonenymein) in 3-turanylmethy! 2 2dimethyl-3-(2-methyl-1-properyli cyclopropanezarboxylate* 0 150°; related compounds 0 020°; technical piperonyl butoride 0 500°; tequivalent to 0 40°; of toutylcarbiyl-16-procyloperonyliether and C 100 - related compounds aromatic petroleum distiliate 0 200°; aliphatic petroleum distiliate 1 000°;

*cis/transisomers ratio max 30 : (2) cis and min 70 = (2) trans INERT INGREDIENTS 97 968's (Contains 0 100's Socium nitrite)

KEEP OUT OF REACH OF CHILDREN

(SEE DIRECTIONS AND CAUTIONS ON BACK

NET WEIGHT 121/4 OZ.



YIKG IKSECT KILLEII FORMULA I

To SPRAY remove tablon front of spray car. Look into hole on top of cap and turn cap until white mark appears. After use turn cap until white mark disappears

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent wi Point spray nozzle away from face and press

SHAKE BEFORE USING Dateur menner moutaine, se notibut se possible

TO KILL FLYING INSECTS

FLIES MOSQUITOES, SMALL FLYING MOTHS, GNATS WIN RACTHER IS FLIES. MOSQUITOES, SMALL FLYING MOTHS, GNATS with Raid there is no need to spray directly at flying insects — the mist in the air with a them close all doors and windows. Spray Raid up into the air with a sweeping motion accompabout 3 feet from interior waits labrics furniture until foom is filled with mist. Keep room closed for 15 minutes.

WASPS Spray directly at stray wasps that enter building

TO KILL CRAWLING INSECTS

ROACHES WATERBUGS SILVERFISH CRICKETS Spray hid no places such as Daseboards and floor boards most places openings around sinks drains and ploes behind bookcases Cabinets and other storage areas hitting as many insects as possible. Repeat as necessary

ANTS Spray traits hits around window frames and openings around pipes and baseboards where ants crawl hitting as many las possible. Repeat as

IFLEAS Spray floors floor coverings and sleeping quarters of pets. Repeat spraying as often as necessary

SPIDERS, CENTIPEDES, SOW BUGS. Soray webs and places where these pests craw! Hit as many as possible. Repeat as necessary.

CARPET BEETLES Hit these bugs directly with spray on sections of flob-baseboards, shelves and underside of carpets. Repeat spraying at frequent

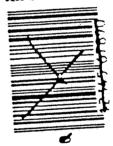
BEDBUGS Spray baseboards moldings floor board Spray mattresses particularly around seams and tufts. Take beds apart and spray into all joints Repeat spraying at frequent intervals.

DISPOSAL

Do not reuse empty container, wrap container, and put in trash collection

PRECAUTIONARY STATEMENTS HAZARD TO HUMANS AND DOMESTIC ANIMALS

aquariums before spraying



PHYSICAL OR CHEMICAL

PHTSICAL OR CHEMICAL HAZARDS
Contents under pressue Do not use or store near hear or open trame. Do not puncture or incinerate containers. Exposure to temperatures above 120°F, may cause bursting

Johnson and RAID are Traperbarks For additional intorication write Carof Hansen S C JOHNSON & SON INC RACINE WISCONSIN 53403U S A EPA Res No 4822 141 EPA ESI NO 4822-WI-1