

MEMORANDUM

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 (RP)
IRB/TSS

83E

To: Franklin D. R. Gee
Product Manager (17)

Registrant: S. C. Johnson & Son
1525 Howe Street
Racine, Wisconsin 53403

Active Ingredients:

d-trans allethrin (homolog of Cinerin I).....	0.150%
related compounds.....	0.012%
Kesmethrin (5-(phenylmethyl)-furanyl)methyl 2,2-dimethyl-3-(2-methyl-1- propenyl)cyclopropanecarboxylate.....	0.150%
related compounds.....	0.020%
Technical Piperonyl Butoxide.....	0.500%
Aromatic Petroleum Distillate.....	0.200%
Aliphatic Petroleum Distillate.....	1.000%
Inert Ingredients.....	97.968%

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 actual 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. Study No. 4080073.

Procedure: 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.

Results: 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.

Results: No irritation in any eyes.

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

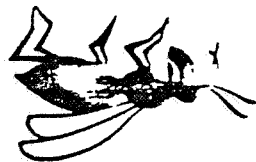
Product Classification: Tox. Cat. IV.

5. Acute Inhalation LC50- Rat. Dated: 8-30-74. Study 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 l/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 served 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).



RECEIVED 1-17-91

CLEAN, PLEASANT ODOR!
KILLS BUGS DEAD!

ACTIVE INGREDIENTS: d-trans Allethrin (allyl homolog of Cinerin I) 0.150%; related compounds 0.012%; Resmethrin [S-(phenylmethyl)-3-(4-arynyl)methyl]-2,2-dimethyl-3-(2-methyl-1-propenyl)-cyclopropanecarboxylate* 0.150%; related compounds 0.020%; technical piperonyl butoxide 0.500%; equivalent to 0.400%; p-tert-butylcarbityl-1,6-propyl-piperonyl ether and C-100* related compounds, aromatic petroleum distillate 0.200%; aliphatic petroleum distillate 1.000%; *cis/trans isomers ratio: max. 30% cis and min. 70% trans
INERT INGREDIENTS: 97.968% (Contains 0.100% Sodium nitrite)

KEEP OUT OF REACH OF CHILDREN
CAUTION
(SEE DIRECTIONS AND CAUTIONS ON BACK)
NET WEIGHT 12 1/4 OZ.

To Spray: Remove tab on front of spray cap. 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 with its labeling.

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

TO KILL FLYING INSECTS

FLIES, MOSQUITOES, SMALL FLYING MOTHS, GNATS: With Raid there is no need to spray directly at flying insects — the mist in the air will kill them! Close all doors and windows. Spray Raid up into the air with a sweeping motion, keeping about 3 feet from interior walls, fabrics, furniture until room 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 hiding 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 trails, hills, around window frames and openings around pipes and baseboards where ants crawl, hitting as many as possible. Repeat as necessary.

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

SPIDERS, CENTIPEDES, SOY BUGS: Spray webs and places where these pests crawl. Hit as many as possible. Repeat as necessary.

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

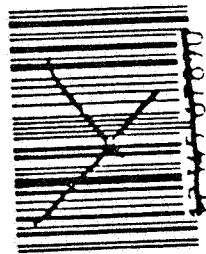
BEDBUGS: Spray baseboards, moldings, floor board. Spray mattresses, particularly around seams and tufts. Take beds apart and spray into all joints. Repeat spraying at frequent intervals.

DISPOSAL

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

**PRECAUTIONARY STATEMENTS
HAZARD TO HUMANS AND DOMESTIC ANIMALS
CAUTION**

Avoid contact with eyes. In case of eye contact, immediately flush with plenty of water. Get medical attention if irritation persists. Do not remain in enclosed areas after use. Ventilate enclosed areas before returning. Avoid contamination of food and foodstuffs. Remove pets, birds and cover fish aquariums before spraying.



PHYSICAL OR CHEMICAL HAZARDS

Contents under pressure. Do not use or store near heat or open flame. Do not puncture or incinerate containers. Exposure to temperatures above 120°F may cause bursting.

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



Johnson
Wax



CLEAN, PLEASANT ODOR!
KILLS BUGS DEAD!

ACTIVE INGREDIENTS: d-trans Allethrin (allyl homolog of Cinerin I) 0.150%; related compounds 0.012%; Resmethrin [5-(phenylmethyl)-3-(4-arynyl)methyl]-2,2-dimethyl-3-(2-methyl-1-propenyl)-cyclopropanecarboxylate* 0.150%; related compounds 0.020%; technical piperonyl butoxide 0.500%; equivalent to 0.400%; of (butylcarbityl)-(6-propylpiperonyl) ether and 0.100%; related compounds aromatic petroleum distillate 0.200%; aliphatic petroleum distillate 1.000%; *cis/trans isomers ratio max. 30% (c) cis and min. 70% (c) trans
INERT INGREDIENTS: 97.962% (Contains 0.100% Sodium nitrite)

KEEP OUT OF REACH OF CHILDREN

CAUTION

(SEE DIRECTIONS AND CAUTIONS ON BACK)

NET WEIGHT 12 1/4 OZ.

Raid FLYING INSECT KILLER
FORMULA II

To SPRAY remove tab on front of spray cap. 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 with its labeling.

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

TO KILL FLYING INSECTS

FLIES, MOSQUITOES, SMALL FLYING MOTHS, GNATS With Raid there is no need to spray directly at flying insects — the mist in the air will kill them. Close all doors and windows. Spray Raid up into the air with a sweeping motion, keeping about 3 feet from interior walls, fabrics, furniture until room 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 hiding 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 trails, hills around window frames and openings around pipes and baseboards where ants crawl, hitting as many as possible. Repeat as necessary.

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

SPIDERS, CENTIPEDES, SOA BUGS Spray webs and places where these pests crawl. Hit as many as possible. Repeat as necessary.

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

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
CAUTION

Do not remain in enclosed areas after use. Ventilate enclosed areas before returning. Avoid contamination of food and foodstuffs. Remove pets, birds and cover fish aquariums before spraying.



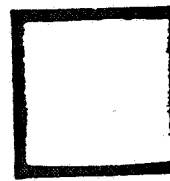
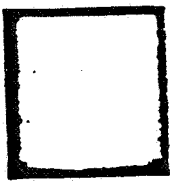
PHYSICAL OR CHEMICAL HAZARDS

Contents under pressure. Do not use or store near heat or open flame. Do not puncture or incinerate containers. Exposure to temperatures above 120°F may cause bursting.

Johnson and RAID are Trademarks. For additional information write Carol Hansen.

S. C. JOHNSON & SON, INC.
RACINE, WISCONSIN 53403 U.S.A.

EPA Reg. No. 4822-141
EPA Est. No. 4822-WI-1



5