



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

APR 22 1981

4/22/81

MEMORANDUM

Subject: Resmethrin

To: Acting Chief, Toxicology Branch
HED, TS-769

We acknowledge receipt of Tox's review of a 2-year rat chronic feeding oncogenesis study with resmethrin. The study was submitted as 6(a)(2) data. From this review, Tox concluded that resmethrin is associated with oncogenic effects at both the mid and high dose levels in the livers of female rats.

In conversation with Mr. Edwin Budd on March 30, 1981, he stated that Tox will no longer refer such chemicals to SPRD for RPAR review. Tox, however, will notify SPRD and RD that a risk assessment will be done in regard to registered and pending uses. Subsequently, Tox will inform SPRD and RD of the results of the risk analysis for further consideration.

In order to perform a risk assessment, Mr. Budd indicated that HED should be made aware of the existing and pending uses for resmethrin. Therefore, attached herewith is a general listing of the current registered uses for resmethrin. Included also is a representative cross section of registered labels.

A handwritten signature in cursive script that reads "Franklin D. R. Gee".

Franklin D. R. Gee
Product Manager (17)
Insecticide-Rodenticide Branch
Registration Division (TS-767)

Attachment

cc: Director, SPRD
Chief, IRB

1/12

Attachment

KESMETHRIN

I. Representative Existing Uses: (General Categories):

a. Direct application to pets (cats and dogs) to control fleas and ticks.

b.

For Indoor Use in ULV,
Mechanical Misting Sprayers or Thermal Foggers

For use in food processing plants, milk handling areas of milk, cheese and ice cream plants, bakeries, breweries, bottling plants, grain mills, warehouses, boxcars, stores, institutions, homes, and horse stables, not for application if horses will be used for food.

c. In automatic timed dispenser during "After Hours," and total release.

d. For public health, plant protection and quarantine pests found on aircraft.

e. For use indoors and outside premises of hotels, motels, homes, food handling establishments, packaging and processing plants, seed houses, commercial, industrial, office, institutional and storage buildings, milk handling areas of milk plants, milk storage rooms, egg processing plants, supermarkets, restaurants, bottling plants, canneries, flour and feed mills, bakeries, boats, ship cabins and hospitals. In hospital, patients should be removed prior to treatment. Also for use in buses, automobiles, trucks, boxcars and ship cargo holds. Also for use in dog kennels, patios and paved areas.

f. Used by mosquito abatement districts, public health officials and other trained personnel in mosquito control programs.

g. Outdoors to protect ornamental plants.

h. For manufacture use only.

II. Similar Uses are Pending

III. Tolerance(s)

No tolerances have been established for the subject chemical, however, the following petitions are pending.

PETITION NO.

PROPOSED TOLERANCES

- a. 9F2209 Request to be exempted from the requirement of tolerance in or on raw agricultural commodities when used according to label directions for mosquito control on feedlots, croplands, pastures and rangelands.
- b. 9H5210
432-547 For use in food items resulting from its use in food handling establishments.

IV. Present Label Precautions

PRECAUTIONARY STATEMENTS
HAZARD TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed or absorbed through skin. Avoid breathing vapors or spray mist. Avoid contact with skin and eyes. In case of contact, immediately flush eyes or skin with plenty of water. Obtain medical clearance 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 potable water. 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 OR CHEMICAL HAZARDS

Do not store near heat or open flame.

Contents under pressure. Do not use or store near heat or open flame. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting.

DIRECTIONS FOR USE

GENERAL CLASSIFICATION

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

STORAGE AND DISPOSAL

- V. See attached representative labels for further details.

3

5

Active Ingredients:
 (15-(phenylmethyl) 3 furanyl) methyl 2,
 2 dimethyl 3 (2 methyl 1 propenyl)
 cyclopropanecarboxylate) 0.250% w/w
 related compounds 0.034%
Inert Ingredients:
 99.716%
 *Cis/trans isomers total max. 30% (±)
 cis and min. 70% (±) trans
 HJ S. Patent No. 3,465,407 and 3,542,998
 *Patents: SBI 1182; Insecticides, Inc.,
 insecticide, DuPont Corp., 1050 Wall
 Street West, Lynchburg, VA 24501

USE ONLY AS DIRECTED

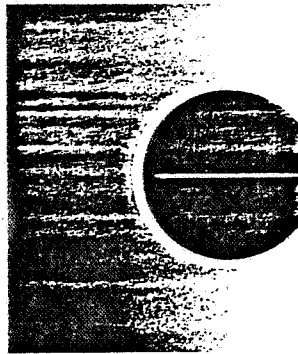
PRECAUTIONARY STATEMENTS

Hazards to Humans

WARNING:
 Causes eye irritation. Do not get in eyes.
 Avoid prolonged contact with skin.
 Irritant if swallowed. If in eyes, flush
 with plenty of water and seek medical
 attention. Wash hands thoroughly after
 using. Avoid consumption of food and
 foodstuffs. Do not use, pour, spill or store
 near heat or open flame.

STORE AT TEMPERATURES ABOVE 40°F.

Stock No. 4 5/80



DURAKYL
 S H A M P O O

For direct application as a shampoo
 to kill fleas
 with Resmethrin (see side panel)

WARNING: KEEP OUT OF REACH OF CHILDREN

(See side panel for additional precautionary statement.)

Manufactured by
 Stiefel Laboratories, Inc.
 Kenilworth, N.J.

DVM

Net Wt. 6 Oz. (180 gms.)

EPA Est. No. 3544-NY-1 EPA Reg. No. 41835-3

FOR USE ON CATS AND DOGS TO KILL FLEAS

INSTRUCTIONS FOR USE:

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

1. Wet coat thoroughly with water.
2. Apply Durakyl Shampoo to wet coat, one area at a time, using 2-3 cc. (1/2 tsp.) per area and lather well. This amount should be sufficient to develop a thick lather.

SPECIAL ATTENTION SHOULD BE PAID TO APPLICATION AROUND TAIL AREA, FOOT PADS (BETWEEN TOES), EARS AND UNDERBODY SURFACES.

3. Allow to stand for approximately 5 minutes.
4. Rinse thoroughly with water.

GUIDE TO AMOUNTS:

(Varies with thickness of coat)

Pet Weight: Less than 10 lbs. 10-30 lbs. 30-75 lbs.
 Amount of Shampoo 1 teaspoon (5 cc) 1 2 tsp. 2-4 tps.

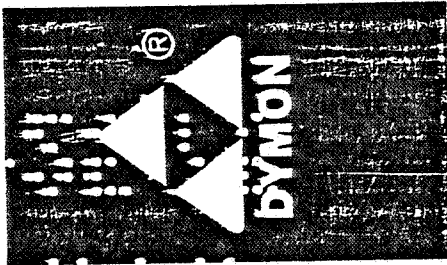
Note: For best results, repeat as necessary and spray animals bedding, kennel and cages frequently by pet with Durakyl Pet Yard and Kennel Spray, at the time of application of Durakyl Shampoo.

STORAGE & DISPOSAL

CONTAINER DISPOSAL: Do not reuse empty container. Wrap container and put in trash collection.

DERMATOLOGICS FOR VETERINARY MEDICINE, INC.
 Miami, Florida 33166

NET WT. 18 OZ.
(1 LB. 2 OZ.)



SWH

WASP & HORNET SPRAY

GIVES POSITIVE CONTROL
UP TO 12 FEET
IN REACHING NESTS



LONG RANGE FREEZING LETHAL JET SPRAY

KILLS: Hornets, Wasps, Yellow Jackets.

WARNING

Contents under pressure. Do not puncture. Do not expose container to temperatures above 120°F. Do not throw container into fire or incinerator. Avoid breathing spray mist and avoid contact with skin.

E.P.A. Reg. No. 11694-52
EPA Est. No. 11694-KS-1

CAUTION: Keep Out of Reach of Children
Contents Under Pressure
See side panel for further precautions

Active Ingredients:

* + (5-Benzyl-3-furyl)methyl, 2,2-dimethyl-3-(2-methylpropenyl) cyclopropanecarboxylate	0.246% w/w
Related compounds	0.034%
Aromatic petroleum hydrocarbons	0.326%
Amyl Acetate	1.000%
Methylene Chloride	11.000%
Tetrachloroethylene	32.000%
1,1,1 Trichloroethane	30.385%
Inert Ingredients:	25.009%
	100.000 w/w

* Cis/trans isomer ratio: max. 30% (±) cis and min. 70% (±) trans.

+ U.S. Patent No. 3,465,007.

Directions For Use

For Outdoor Use: Application should be made in late evening when hornets, wasps and yellow jackets are at rest. Hold can upright. Remove cap. Point valve opening away from face. With wind at back, aim at nests in trees, bushes, under leaves, chimneys, cracks or crevices.

Thoroughly saturate nest with spray, contacting as many insects as possible. To prevent insects from falling on skin and clothes, do not stand directly under nest. Best results can be obtained if nest is sprayed in late evening when most insects are at rest. If reinfestation occurs, repeat treatment.

For Indoor Use: Point valve opening away from face. Aim directly at hornets, wasps and yellow jackets under rafters, etc. Do not spray in areas where foods and feedstuffs are exposed or handled.

WARNING

Foods should be removed or covered during treatment. All food processing surfaces should be covered during treatment or thoroughly cleaned before using. When using the product in these areas, apply only when the facility is not in operation.

Remove pets, birds and cover fish aquariums before spraying.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING

Harmful if swallowed. Avoid contact with skin or clothing. Causes eye irritation. Do not get in eyes. Wash after handling. Avoid breathing vapor. Do not spray on humans or pets. Do not spray where food or drink is exposed or being consumed.

ENVIRONMENTAL HAZARDS

Keep out of lakes, streams or ponds. Do not contaminate water by cleaning of equipment or disposal of wastes. When used on ships do not wash or flush freshly sprayed surfaces into adjacent waters.

FIRST AID

If swallowed, induce vomiting by sticking finger in back of throat or by administration of syrup of ipecac. Get medical attention if in eyes. Flush with water for 15 minutes and see a physician. For skin, wash with plenty of soap and water. If irritation develops, get medical attention.

PHYSICAL OR CHEMICAL HAZARDS

DO NOT USE. POUR, SPILL OR STORE NEAR HEAT OR OPEN FLAME. FLASH POINT MINIMUM 140°F.

DIRECTIONS FOR USE

GENERAL CLASSIFICATION 29 JUN 1979
It is a violation of federal law to use this product in a manner inconsistent with its labeling.

Under the Federal Insecticide, Fungicide, and Rodenticide Act, we warrant for the protection of the public health that the product is registered under the registration number 29-1111-01.

STORAGE AND DISPOSAL

Store at temperatures above 32°F. Do not reuse empty container. Wrap container and put in trash collection.

EPA Reg. No. 9250-26
EPA Est. 9250-1L01

Do not use in edible product areas of food processing plants, restaurants, or other areas where food is commercially prepared or processed. Do not use in serving areas while food is exposed in the home cover or remove exposed foods. Avoid contamination of cooking utensils and food preparation surfaces.

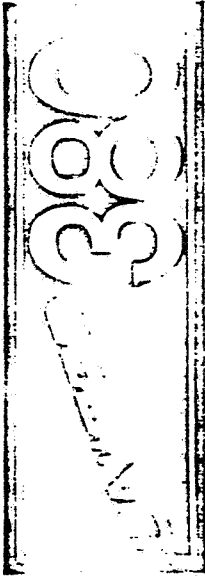
NOT INTENDED FOR CONSUMER HOUSEHOLD USE

E-28615-P

FOR INDUSTRIAL & INSTITUTIONAL USE ONLY



2% TRANSPARENT EMULSION* CONCENTRATE



A SYNTHETIC PYRETHROID

DUAL ACTION INSECT KILLER KILLS AS CONTACT AND RESIDUAL SPRAY KILLS ROACHES UP TO 4 WEEKS

ACTIVE INGREDIENTS:

- 1,9'-resmethrin (1-(5-phenylhexylthio)-3-(4-methyl-2-furyl) methyl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate) 2.000%
- Related compounds274%
- INERT INGREDIENTS:** 97.726%
- *Cis/trans isomers ratio: max. 30% (L) cis and min. 70% (L) trans.

U.S. Patent Nos. 3,465,007 and 3,562,928
Penick's SBP-1382 (R) brand of resmethrin insecticide, Penick Corp., 1050 Wall St., West, Lynnhurst, L.I., 07071

Contains 0.17 pounds SBP-1382 per gallon

KEEP OUT OF REACH OF CHILDREN

WARNING

HAVE CLEAN WATER SUPPLY AT HAND IN CASE OF AN EYE EMERGENCY WHEN DILUTING THIS CONCENTRATE

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

To Re-Order Call Toll Free 800-323-2594

Manufactured & Sold By:

UNITED LABORATORIES, INC.

Addison, IL 60101

Authorized Distributors: See Yellow Pages

DIRECTIONS FOR USE

DILUTION INSTRUCTIONS
For an emulsion containing 0.35% UNITED 381, dilute

To Volume Below With Water

Concentrate Fluid Ounces	
1 1/2	8 fluid ounces
3	16 fluid ounces
6	32 fluid ounces
11.5	1/2 gallon
23	1 gallon

MIX WELL BEFORE USING.

APPLICATIONS:

INSTRUCTIONS FOR CONTACT AND RESIDUAL SPRAYS

FOR INDOOR USE: In non-food areas of food handling establishments, commercial, industrial, office, residential, public, institutions, and storage buildings, homes, hotels, ship cabins and hostels in hospitals patients should be removed prior to treatment. Also for use in buses, automobiles, and non-food areas of trucks, boxcars and ship cargo holds. Do not use on electrical equipment or on surfaces that can be harmed or stained by water. Also for use indoors in dog kennels and horse stables. In horse stables, not for application if horses will be used for food.

CONTACT SPRAY - KILLS AND REDUCES INFESTATIONS: COCKROACHES, CRICKETS, SILVERFISH ANTS: Apply as a contact spray. Fill spray tank with UNITED 381 0.35% transparent emulsion spray formulation. Keep spray nozzle about 8 to 12 inches from surface to be treated. Adjust pressure and nozzle to deliver a coarse wet spray. When possible, spray directly on pests to reduce infestations. Spray thoroughly into hiding places such as cracks, crevices, moist areas, openings around pipes and sinks, under refrigerators and other appliances, baseboards, and storage areas. Apply spray until area is moist, but not to the point of run-off. Spray directly on insects where possible. Repeat as necessary.

ANTS: To kill ants: Spray trails, nests and points of entry within buildings and homes. Spray on ants where possible. Repeat as necessary.

FLEAS: Aids in the control of fleas on pet bedding and in horse stalls. Hold spray nozzle about 18 inches from areas to be treated. Direct spray on resting areas and floor around these areas. Apply spray until area is moist. Treat pet bedding the same way. Also spray entire inside surface of dog houses. Repeat as necessary. Do not allow pets to contact treated areas until spray has dried. Remove or cover animal feed before spraying. Also, treat dogs, cats and horses with a registered flea control product before they re-enter the treated area.

WARRANTY STATEMENT

Our recommendations for use of this product are based upon tests believed to be reliable. The use of this product being beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of such or the results to be obtained if not used in accordance with directions or established safe practice. The buyer must assume all responsibility, including injury or damage, resulting from its misuse as such, or in combination with other materials.

SBP-1382® CONCENTRATE 40 "Z"

(Contains 3.14 pounds of actual SBP-1382 per gallon)
FOR FORMULATION OF INSECTICIDES ONLY

(Not For Resale Under This Label)

ACTIVE INGREDIENTS

•†resmethrin (5-(phenylmethyl)-3-furanyl)methyl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate	40.00% a.w.w
Related compounds	5.45%
Aromatic petroleum hydrocarbons	52.60%
INERT INGREDIENTS	1.95%
	100.00%

*Cis, trans isomers ratio: max. 30% (±) cis and min. 70% (±) trans.
†U.S. Patent Nos. 3,465,007 and 3,542,928.

•Penick's SBP-1382 is a brand of resmethrin insecticide.
Penick Corp., 1050 Wall Street West, Lyndhurst, N.J. 07071.

CAUTION

See side panel for additional
Precautionary Statements and
Statement of Practical Treatment.

INSTRUCTIONS FOR FORMULATION

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

SBP-1382® Concentrate 40 "Z" is intended only for formulating use. Formulators using this product are responsible for obtaining EPA registration for their formulated products. Refer to Technical Bulletin 595 for instructions for formulation and other information.

EPA Reg. No. 432-595 EPA Est. 432-NJ-1 F-29726-P

NET WT. POUNDS

PENICK Penick Corporation

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS

CAUTION

Harmful if swallowed. Avoid breathing vapors or spray mist. Avoid contact with skin, eyes or clothing.

STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Immediately flush eyes with plenty of water. Get medical attention if irritation persists.
IF ON SKIN: Wash with soap and water. Get medical attention if irritation persists. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and birds. Do not contaminate water by cleaning of equipment or disposal of wastes.

PHYSICAL/CHEMICAL HAZARDS

This product is combustible. Do not use, pour, spill or store near heat or open flame. FLASH POINT MINIMUM 115°F.

STORAGE AND DISPOSAL

DO NOT USE OR STORE NEAR HEAT OR OPEN FLAME.

Do not store below 40°F. This material may have been exposed to temperatures below 40°F; to insure uniformity, warm to 100°F and mix well before using.

CONTAINER DISPOSAL:

- (a) Reseal container and offer for reconditioning, or
- (b) Triple rinse (or equivalent) and:
Offer for recycling, reconditioning, or disposal in an approved landfill, or bury in a safe place.

ACCEPTED

NOV 14 1980

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.

SYNTHRIN® WHITEFLY SPRAY

CODE 726.51

For use in homes and greenhouses.

ACTIVE INGREDIENTS:

- *Resmethrin: [5-(phenylmethyl)-3-furanyl]methyl 2,2-dimethyl-3-(2-ethyl-1-propenyl) cyclopropane-carboxylate 24.30%
- Related compounds 3.30%
- Heavy aromatic naphtha 66.40%
- TOTAL INGREDIENTS: 100.00%**

*Cis/trans isomer ratio: max. 30% (+)
cis and min. 70% (+) trans. U.S.
Patent No. 3,465,007

KEEP OUT OF REACH OF CHILDREN

WARNING

See side panel for additional precautionary statements

SYNTHRIN - Registered trademark of Fairfield American Corporation

EPA Reg. No. 4816-574
EPA Est. No. 278-NY-1

DIRECTIONS FOR USE

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

NET CONTENTS

General Instructions: This container will dispense premeasured dosages of material. Each push of the actuator button will dispense 1 teaspoon of concentrate. To make a gallon of finished dilution, push the actuator one time.

Contact Spray: For whiteflies, apply at 1 teaspoon per 1 gallon of water (0.6 ml/pint). Spray upper and lower surfaces of plant foliage to point of runoff. Spray in later afternoon and at night only, when the temperature ranges from 50°F to 72°F. Repeat application weekly for four weeks or longer for control of adults and nymphs. Complete spray schedule on poinsettia before blooms form.

Greenhouse Pests: For infestation of whiteflies on begonias, fuschia, salvia, poinsettia, chrysanthemums, coleus, peraniums, ageratum, petunia, aster, calendula, marigold, roses, azaleas, and ivy.

DISPOSAL

Do not reuse empty container. Wrap container and put in trash collection.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

Harmful if swallowed. Avoid contact with skin. Avoid breathing spray mist. Causes eye irritation. Do not get in eyes. Do not spray on food or feed crops.

FIRST AID

In case of contact with eyes, immediately flush eyes with plenty of water for 15 minutes. For eyes, call a physician.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and birds. Keep out of lakes, ponds, or streams. Do not contaminate water by cleaning of equipment or disposal of wastes.

PHYSICAL OR CHEMICAL HAZARDS

Contents under pressure. Do not use or store near heat or open flame. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting.

Buyer assumes all risks of use, storage or handling of this material not in strict accordance with directions given herewith.

RECEIVED
FEB 5 1981
4816 574

BATCH



CODE 726.51



FAIRFIELD AMERICAN

10000 3957
3930 SALT ROCK
ALBANY, N.Y. 12219

DIRECTIONS FOR USE

GENERAL CLASSIFICATION

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

DILUTION INSTRUCTIONS

For an emulsion containing 0.35% SBP-1382, dilute.

Concentrate fluid ounces	To Volume Below	With Water
1 1/2	8 fluid ounces	1 1/2
3	16 fluid ounces	3
6	32 fluid ounces	6
115	1/2 gallon	115
23	1 gallon	23

MIX WELL BEFORE USING.

APPLICATIONS:

APPLICATIONS FOR CONTACT AND RESIDUAL SPRAYS FOR INDOOR USE: In non-food areas of food handling establishments, commercial, industrial, office, residential, public, institutional and storage buildings, homes, hotels, ship cabins and hospitals. In hospitals patients should be removed prior to treatment. Also for use in buses, automobiles, and non-food areas of trucks, boxcars and ship cargo holds. Do not use on electrical equipment or on surfaces that can be harmed or stained by water. Also for use indoors in dog kennels and horse stables. In horse stables, not for application if horses will be used for food.

CONTACT SPRAY - KILLS AND REDUCES INFESTATIONS: COCKROACHES, CRICKETS, SILVERFISH, ANTS: Apply as contact spray. Fill spray tank with Control-A-Bug formulation. Keep spray nozzle about 8 to 12 inches from surface to be treated. Adjust pressure and nozzle to deliver a coarse wet spray. When possible, spray directly on pests to reduce infestations. Spray thoroughly into hiding places such as cracks, crevices, moist areas, openings around pipes, sinks, under refrigerators and other appliances, doorboards, and storage areas. Apply spray until area is moist, but not to the point of run-off. Spray directly on insects where possible. Repeat as necessary.

ANTS: To kill ants: Spray trails, nests and points of entry within buildings and homes. Spray on ants where possible. Repeat as necessary.

FLEAS: Aids in the control of fleas on pet bedding and in horse stalls. Hold spray nozzle about 18 inches from areas to be treated. Direct spray on resting areas and floor around these areas. Apply spray until area is moist. Treat pet bedding the same way. Also spray entire inside surface of dog houses. Repeat as necessary. Do not allow pets to contact treated areas until spray has dried. Remove or cover animal feed before spraying. Also, treat dogs, cats and horses with a registered flea control product before they re-enter the treated area.

CHEMSCOPE

Control-A-Bug

A SYNTHETIC PYRETHROID

ACTIVE INGREDIENTS:

resmethrin	
••[5-(phenylmethyl)-3-(uranyl) methyl	
2,2-dimethyl-3-(2-methyl-1-propenyl)	
cyclopropanecarboxylate	2.000% w/w
Related compounds	0.274%
INERT INGREDIENTS	97.726%
	100.000% w/w

*Cis/Trans isomers ratio: max. 30% (±) cis and min.

70% (±) trans.

U.S. Patent No. 3,465,007.

*SBP-1382" of Penick Corporation, 1050 Wall Street West, Lyndhurst, N. J. 07071.

DUAL ACTION INSECT KILLER KILLS AS CONTACT AND RESIDUAL SPRAY KILLS ROACHES UP TO 4 WEEKS

CAN BE USED IN NON-FOOD AREAS
OF FOOD HANDLING ESTABLISHMENTS

CAUTION: KEEP OUT OF REACH OF CHILDREN.

HAVE CLEAN WATER SUPPLY AT HAND
IN CASE OF AN EYE EMERGENCY
WHEN DILUTING THIS CONCENTRATE
SEE SIDE PANEL FOR ADDITIONAL
PRECAUTIONARY STATEMENTS

NET CONTENTS 1 GALLON (128 LIQ. OZ.)
METRIC VOLUME 3.785 LITERS

RESIDUAL SPRAY: Aids in the control of COCKROACHES, CRICKETS, SILVERFISH, ANTS. Kills for up to 4 weeks. Spray baseboards, cracks and crevices, around door and window frames, and other hiding places such as closets, in back of and under appliances, sinks and cupboards in kitchens and bathrooms. In basements, spray hiding places in cracks and crevices, lower walls and dark places. Apply as a coarse wet spray in a 4 to 6 inch band until area is thoroughly wet but not to the point of run-off. Repeat as necessary.

PHYSICAL OR CHEMICAL HAZARDS

Do not use in edible product areas of food processing plants, restaurants, or other areas where food is commercially prepared or processed. Do not use in serving areas where food is exposed. In the home, cover or remove exposed foods. Avoid contamination of cooking utensils and food preparation surfaces.

HAZARDS TO HUMANS

CAUTION

Avoid contact with eyes, skin or clothing. In case of contact immediately flush eyes and skin with plenty of water. Get medical attention if irritation persists. Harmful if swallowed.

STORAGE AND DISPOSAL

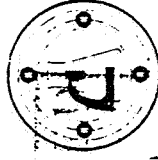
Store at temperatures above 32°F. Do not reuse empty container. Wrap container and put in trash collection.

WARRANTY STATEMENT

Our recommendation for use of this product are based upon tests believed to be reliable. The use of this product being beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of such or the results to be obtained if not used in accordance with directions or established safe practice. The buyer must assume all responsibility, including injury or damage, resulting from its misuse as such, or in combination with other materials.

E.P.A. EST. 9143-TX-1

E.P.A. REG. NO. 9143-70



CHEMSCOPE CORPORATION

3200 EAST RANDOL MILL ROAD
ARLINGTON, TEXAS 76011
METRO NO. (817) 261-2287

JUN 11 1990

943-70

Soilax®

PROFESSIONAL INSECTICIDE

Kills the following flying and crawling insects:
Houseflies, Mosquitoes, Gnats, Wasps, Roaches, Ants, Earwigs, Spiders, Grain Mites, Sow bugs and Centipedes.

ACTIVE INGREDIENTS:

*† Resmethrin-[5-(phenylmethyl)-3-turanyl]methyl 2,2-dimethyl-3-(2-methyl-1-propenyl) cyclopropane-carboxylate	0.500%
Related compounds	0.068%
Aromatic petroleum hydrocarbons	0.664%
INERT INGREDIENTS:	98.768%
TOTAL	100.000%

* Cis/trans isomers ratio: max. 30% (±) cis and min. 70% (±) trans.

† U.S. Patent Nos. 3,465,007 and 3,542,928 SPP-1382™ brand of resmethrin insecticide, Penick Corp.

KEEP OUT OF REACH OF CHILDREN
CAUTION

See back panel for additional precautionary statements.
FOR INDUSTRIAL USE ONLY

NET CONTENTS:
1 lb. (454 g)

Soilax® PROFESSIONAL INSECTICIDE

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Avoid contact with eyes, skin or clothing. In case of contact immediately flush eyes and skin with plenty of water. Get medical attention if irritation persists. Harmful if swallowed.

Cover or remove exposed foods. Avoid contamination of cooking utensils. Food processing surfaces should be covered or thoroughly cleaned before using. When using this product in food processing facilities, apply only when facility is not in operation. In hospitals, patients should be removed from room prior to treatment. Room should be ventilated for 2 hours after spraying. Do not return patients to room until after ventilation.

Remove pets, birds and cover aquariums before spraying.

PHYSICAL OR CHEMICAL HAZARDS

Contents under pressure. Do not puncture. Do not use near heat or open flame. Exposure to temperature above 130°F may cause bursting.

DIRECTIONS FOR USE

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

Shake well before each use. Remove protective cap. Aim spray opening away from person. Push button to spray.

TO KILL HOUSEFLIES, MOSQUITOES AND GNATS: Close all doors and windows. Point nozzle upward, direct spray mist to all parts of the room, especially windows and other light sources which attract these insects. Fill the room with mist, then leave the treated area. Keep the room closed for at least 15 minutes. Ventilate the room when treatment is completed.

TO KILL WASPS: Application should be made in late evening when insects are at rest. Spray liberally into hiding and breeding places, contacting as many insects as possible. Repeat as necessary.

TO KILL CRAWLING INSECTS: Roaches, earwigs, grain mites, sow bugs, spiders and centipedes. Spray thoroughly into hiding places such as cracks, crevices, moist areas, openings around pipes and sinks, under refrigerators, baseboards and storage areas. Spray directly on insects where possible. Repeat as necessary.

DISPOSAL

Wrap container and put in trash collection.

7076R-0402/1179
Printed in U.S.A.

EPA Reg. No. 1677-85

EPA Est. No. 10-900-OH-1



A product of **ECONOMICS LABORATORY, INC.**
General Offices: St. Paul, Minn. 55102



A product of **ECONOMICS LABORATORY, INC.**
General Offices: St. Paul, Minn. 55102

INSECTICIDE, AEROSOL RESMETHRIN - 2%

NET WT.

STOCK NO.

Type I, Class I

EPA PUBLIC HEALTH, PLANT PROTECTION AND QUARANTINE
PESTS FOUND ON AIRCRAFT

FLIES, MOSQUITOES, GNATS, CARIBBEAN FRUIT FLIES.

ACTIVE INGREDIENTS:

Resmethrin 2,2-dimethyl-3-

2-methylpropenylcyclopropanecarboxylate

INERT INGREDIENTS

Dispersant: max. 11% (L) and min. 89% (L) Trans.

U.S. Patent No. 3,465,007

100.00%

2.00%

98.00%

By WT.

100.00%

100.00%

100.00%

100.00%

100.00%

100.00%

100.00%

100.00%

100.00%

100.00%

FOR MILITARY USE NOTICE

THE INGREDIENTS IN THIS PRODUCT ARE NON-FLAMMABLE
AND THE SPRAY MIST WILL NOT IGNITE.

DIRECTIONS FOR USE ON AIRCRAFT

Disinsectization may be accomplished either while the aircraft is in flight or while on the ground prior to takeoff, but in no case shall disinsectization be accomplished later than 30 minutes to the first landing at a United States port.

The ventilation system shall be stopped and all the openings to the exterior kept closed while the insecticide is being released or sprayed, and for a period of not less than 3 minutes thereafter. If disinsectization is accomplished on the ground prior to takeoff the ventilation system may be opened at the end of such period, provided that the system is equipped with filters on other means for preventing the entrance of insects into the aircraft. Doors, windows, or other such openings to the exterior shall be kept closed until after the takeoff, except in the case of emergency, or to permit persons applying the insecticide to disembark.

The aerosol should be dispersed at blocks away at a dosage of 5 grams (5 seconds) per 1,000 cubic feet space. Remove protective cap. Direct the spray nozzle toward the center of the compartment or space being sprayed. Push button to spray. Move arm from side to side in a sweeping motion. Spray the entire accessible from within aircraft after completely clearing the passengers, cargo, baggage, etc., this includes baggage compartments, wheel wells and other similar places.

Spray the cabin, cockpit and other spaces accessible from within the aircraft after the crew is on board and after the doors, windows, hatches and ventilation openings are closed.

CAUTION: Harmful if swallowed. Avoid contact with eyes and to breathe.

EPA REG NO. 1783-73 EPA EST. NO. 1783-NY-2

TRIO CHEMICAL WORKS, INC.

BROOKLYN, N. Y. 11206

READ ENTIRE LABEL
USE IN ACCORDANCE WITH LABEL CAUTIONS
AND DIRECTIONS ON BACK.

WARNING: KEEP OUT OF REACH OF CHILDREN.

WARNING: Contents under pressure. Do not puncture. Do not store near heat or open flame. Exposure to temperatures above 120°F may cause bursting. Never throw container into fire or incinerate.

SEP 19 1973

1783-73

2
5

ACCEPTED
JUL 25 1980
Used by the Federal Insecticide, Fungicide, and Rodenticide Act. See label for the pesticide name and EPA Reg. No. 7273-133



SYNTOX™ INSECTICIDE 2.50% Use Undiluted in U.L.V. Generators

FOR INDOOR AND OUTDOOR CONTROL OF THE FLYING AND CRAWLING INSECTS LISTED ON SIDE PANEL OF LABEL.

Use Undiluted in U.L.V. Generators or for Brush-On Residual Control. Use Diluted for Other Application Methods.

ACTIVE INGREDIENTS:

*Resmethrin [(5-(phenylmethyl)-3-furyl)methyl] 2,2-dimethyl-3-(2-methyl-1-propenyl) cyclopropanecarboxylate) ...	2.50%
Related compounds	0.34%
Aromatic petroleum hydrocarbons	3.30%
Petroleum distillate	93.75%
INERT INGREDIENTS	0.11%
TOTAL	100.00%

*Cis, trans isomers ratio: max. 30%(±) cis and min. 70% (±) trans.
+ U.S. Patent No. 3,465,007
EPA Reg. No. 7273-133
EPA Est. No. 523-IL-1

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

See additional precautionary statements on side panel.

Manufactured for
CROWN CHEMICALS
Rockford, Illinois 61103 U.S.A.

NET CONTENTS GALLONS



PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if Swallowed. Avoid breathing spray mist or fog. Avoid contact with skin. Avoid exposing small children or infants to spray or fog. Do not remain in treated area. Indoors, ventilate after treatment for at least 30 minutes.

STATEMENTS OF PRACTICAL TREATMENTS
If On Skin: Wash with soap and water. If irritation develops, get medical attention.
If In Eyes: Flush with water for at least 15 minutes and get medical attention.
If Swallowed: Call a physician immediately. Do not induce vomiting unless other treatment is not available. Vomiting may cause aspiration pneumonia. Do not induce vomiting or give anything by mouth to an unconscious person. **Note to Physician:** Cautious gastric lavage is indicated if material was taken internally.

In hospitals, patients should be removed from room prior to treatment. Room should be ventilated for 2 hours after spraying. Do not return patients to room until after ventilation. Outdoors, do not enter treated area until spray mist or fog has dissipated. Avoid contamination of feed, foodstuffs, water and utensils. Use in food processing plants only when the plant is not in operation. Foods should be removed or covered during treatment. All food processing surfaces should be covered or thoroughly cleaned before using. Do not use in serving areas while food is exposed. Remove pets, birds, plants, and cover fish aquariums before spraying.

ENVIRONMENTAL HAZARDS
This product is toxic to fish and birds. Keep out of lakes, streams and ponds. Do not contaminate water by cleaning of equipment, or disposal of wastes. Do not apply when weather conditions favor drift from areas treated. Apply this product only as specified on this label.

STORAGE AND DISPOSAL
Prohibitions: Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.
Pesticide Disposal: Pesticide, spray mixture or rinseate that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides or buried in a safe place away from water supplies.
Container Disposal: Triple rinse (or equivalent) and offer for recycling, reconditioning, or disposal in approved landfill, or bury in a safe place.
General: Consult Federal, State or local disposal authorities for approved alternate procedures.

TAKE TIME OBSERVE LABEL INSTRUCTIONS

APPLICATION SITES
OUTDOORS: PATIOS, YARDS, PICNIC AREAS, POOLS, HORSE STABLES, PUBLIC GATHERING PLACES, WINDOW AND DOOR SCREENS, STORAGE AREAS, PORCHES, RESIDENTIAL AREAS, LUMBER YARDS, WAREHOUSES, DRIVE-IN RESTAURANTS, OUTDOOR THEATERS, CAMPSITES, RECREATIONAL AREAS, LOADING DOCKS, POINTS OF ENTRY (TO BUILDINGS), REFUSE AREAS, PARKING LOTS, AND CRAWL SPACES.
INDOORS: MILK-HANDLING AREAS OF MILK, CHEESE AND ICE-CREAM PLANTS, NON-RESIDENTIAL FOOD HANDLING AREAS OF EGG PROCESSING PLANTS, POULTRY BUILDINGS, SUPERMARKETS, RESTAURANTS, TAVERNS, FOOD PROCESSING PLANTS, PACKAGING PLANTS, FLOUR AND FEED MILLS, SEED HOUSES, BAKERIES, BOATS, HOSPITALS, NURSING HOMES, DAY CARE CENTERS, SCHOOLS, WINERIES, HOTELS AND MOTELS, MILK STORAGE ROOMS, APARTMENT BUILDINGS, LAUNDROMATS, INDUSTRIAL PLANTS, STORAGE AREAS, UTILITY ROOMS, WASHROOMS, STORES, ATTICS, BETWEEN WALLS, OFFICE BUILDINGS, EMPTY TRUCKS AND BOXCARS, LOCKER ROOMS, STORAGE BINS AND CONTAINERS, HOMES, RECEIVING AND SHIPPING AREAS, THEATERS, FALSE CEILINGS, EQUIPMENT VOIDS, AND WAREHOUSES.

DILUTING DIRECTIONS
Dilute to 0.5% SYNTOX by adding 1 part by weight of the 2.5% concentrate to 4 parts of petroleum distillate.
Dilute to 0.25% SYNTOX by adding 1 part by weight of the 2.5% concentrate to 9 parts of petroleum distillate.
For indoor use dilutions, a low-odor petroleum distillate with suitable dispersion characteristics is recommended.

Directions for Use continued on Right Panel
CODE AIN 1 2 3 4 5 6 7 8 9

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. USE IN ULTRA LOW VOLUME GENERATORS, NON-THERMAL OR THERMAL APPLICATION EQUIPMENT THAT CAN DELIVER SPRAY PARTICLE SIZES WITHIN THE AEROSOL RANGE, OR IN A GOOD SPRAYER. SEE DILUTION CHART BELOW.

OUTDOORS: To Control Mosquitoes, Houseflies, Biting Flies, Gnats (midges), and Small Flying Moths (millers), apply undiluted in Ultra Low Volume Generator at the rate of 1-1/5 quarts per acre, or dilute to 0.25% and apply as Non-Thermal Aerosol at the rate of 3 gallons per acre. In Thermal/Generator Equipment, dilute to 0.25% and apply at the rate of 3 gallons per acre. Keep applicator at least five feet from any object, especially plants and shrubbery. Avoid wetting of foliage as plant injury or loss may occur. Do not use on food or feed crops. Spraying insect resting areas, loading docks and outside areas where insects congregate will aid in preventing re-infestations. To reduce annoyance from these flying insects, treat open porches and patios in a similar manner.

Fog only when there is no breeze or the wind velocity is less than 3 miles per hour. The ideal time is generally just before sunset to several hours after sunset, when the wind dies down and the air temperature and ground temperature are approximately the same. Under these conditions the fog will linger in the treated area for a longer time. Apply fog from upwind while moving away from the treated area. Avoid inhalation of the fog. Do Not enter the treated area until the fog has dissipated. Repeat application as necessary.

Good sanitation, proper disposal of wastes, and control of standing water are essential in any effective insect control program. **INDOORS:** SHUT OFF VENTILATING SYSTEMS, AIR DUCTS, AIR CONDITIONING EQUIPMENT AND CLOSE OFF ROOM OR AREA TO BE TREATED. EXTINGUISH ALL FLAMES AND PILOT LIGHTS. CLOSE OFF ROOM FOR AT LEAST 15 MINUTES. VENTILATE THE AREA WHEN TREATMENT IS COMPLETED. REPEAT AS NECESSARY. AVOID DIRECT APPLICATION TO FABRICS, WALL PAPER, RUBBER, ASPHALT OR OTHER ARTICLES WHICH MIGHT BE SUBJECT TO STAINING OR SPOTTING.

METHOD OF APPLICATION	PESTS CONTROLLED	APPLICATOR EQUIPMENT	RATE OF APPLICATION	REMARKS
SPACE SPRAY	Grain Weevils, Flour Beetles (Red & Confused), Mosquitoes, Saw-Toothed Grain Beetles, Houseflies, Grain Mites, Fruit Flies, Spider Beetles, Small Flying Moths, Gnats, Indian Meal Moths, Angoumois Grain Moths, Mediterranean Flour Moths	ULV GENERATOR	Use UNDILUTED at the rate of 1.0 fl. oz. per 1000 cu. ft. of space.	Direct nozzle of applicator toward the upper corners of the room and along the ceiling.
		THERMAL FOG	Dilute to 0.5% and use at the rate of 1/2 fl. oz. per 1000 cu. ft. of space.	
		NON-THERMAL AEROSOL	Dilute to 0.25% and use at the rate of 1 fl. oz. per 1000 cu. ft. of space.	
CONTACT SPRAY	WASPS	Application Equipment for Wasps must be capable of generating a 10 ft. (minimum) spray.	Dilute to 0.25%	Application should be made in late evening when insects are at rest. Spray liberally into hiding and breeding places contacting as many insects as possible.
		SPRAY	Dilute to 0.25% to 0.5% and apply as a coarse contact spray. Apply until area is moist, approaching the point of runoff. Spray directly on insects where possible.	Spray thoroughly into hiding places such as cracks, crevices, moist areas, openings around pipes and sinks, under refrigerators, baseboards, and storage areas. Keep children off treated area until dry.
RESIDUAL APPLICATION	Roaches, Earwigs, Grain Mites, Sowbugs, Spiders, Centipedes, Ants, Grain Weevils, Flour Beetles (Red & Confused), Saw-Toothed Grain Beetles, Angoumois Grain Moths, Mediterranean Flour Moths	SPRAY	Dilute to 0.25% to 0.5% and apply as a coarse contact spray. Apply until area is moist approaching the point of runoff. Spray directly on ants where possible.	Spray trails, nests, around door sills, window frames and other places where ants may enter. Keep children off treated areas until dry.
		SPRAY OR PAINTBRUSH	Dilute to 0.5% and apply as a coarse spray or apply undiluted with a 2 to 4 inch paintbrush to baseboards, cracks, crevices, around door and window frames, and other hiding places, such as closets, in back of and under appliances, carpet, sinks and cupboards. In basements, spray hiding places in cracks and crevices, lower walls and dark places. Also apply to adjacent exposed surfaces where the insects will crawl	