



Application for Pesticide:

Section I

1. Company/Product Number 432-612	2. EPA Product Manager J. Tavano	3. Proposed Classification <input type="checkbox"/> None <input checked="" type="checkbox"/> Restricted
4. Company/Product (Name) Pyrethrins/Piperonyl Butoxide, Contrate 5Z-25Z	PM# 10	
5. Name and Address of Applicant (Include ZIP Code) Roussel Uclaf Corporation 95 Chestnut Ridge Road Montvale, NJ 07645 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section II

<input type="checkbox"/> Amendment - Explain below	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Revised Environmental Hazards Statement as per PR Notice 93-3.

NOTIFICATION LABEL NOT REVIEWED PER PR NOTICE 93-3
DATE: 7/1/93

Section III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
	If "Yes," Unit Package wgt.	No. per container	If "Yes," Package wgt.	No. per container	<input type="checkbox"/> Glass
					<input type="checkbox"/> Paper
* Certification must be submitted.				<input type="checkbox"/> Other (Specify)	
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) of Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label Is Affixed To Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled <input type="checkbox"/> Other (_____)					

Section IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Sharon M. Johnston	Title Registration Specialist	Telephone No. (Include Area Code) (201) 307-9700
2. Signature 		3. Title Registration Specialist
4. Typed Name Sharon M. Johnston		5. Date 5-19-93
I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)

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PYRETHRINS/PIPERONYL BUTOXIDE CONCENTRATE

5% - 25%

Contains 0.35-0.36 lb/gal (41.9-43.7 g/L) of pyrethrins, and
1.76-1.80 lb/gal (210-216 g/L) of piperonyl butoxide.

Authorized by USDA for use in edible product areas of official establishments operating under the Meat, Poultry, Shell Egg Products Inspection Programs.

FOR PROFESSIONAL USE ONLY:

To be applied only by or under the supervision of Pest Control Operators, Mosquito Abatement Districts, Public Health Organizations and other Trained Personnel responsible for Insect Control Programs.
For indoor or outdoor application as a space, area or contact spray. Dependent upon pests to be controlled and the area to be treated, may be applied through Mechanical Aerosol Generators (ULV) as well as conventional fogging or spraying equipment.

ACTIVE INGREDIENTS:

Pyrethrins	5% w/w
* Piperonyl Butoxide, Technical	25%
INERT INGREDIENTS:**	70%
	100% w/w

* Equivalent to 20% (butylcarbityl)(6-propylpiperonyl)ether and 5% related compounds.
**Contains Petroleum Distillate

SPACE AND/OR CONTACT USE AREAS:

- | | | |
|--|--------------------------|---|
| Bakeries | Homes | Railroad Cars |
| Beverage Plants | Horse Barns | Restaurants |
| Canneries | Hospitals | Schools |
| Cattle Barns | Hotels | Stored Food in multi-wall paper or cloth bags |
| Dried Food Products in storage or processing | Industrial Installations | Supermarkets |
| Flour Mills | Meat Packing Plants | Swine Houses |
| Food Processing Plants | Motels | Truck Trailers |
| Grain Elevators | Mushroom Production | Warehouses |
| Granaries | Office Buildings | Zoos |
| | Poultry Houses | |

OUTDOOR USE AREAS:

- | | | |
|----------------------|----------------|--------------------|
| Corrals | Golf Courses | Recreational Areas |
| Drive-in Restaurants | Municipalities | Residences |
| Drive-in Theaters | Parks | Swine Yards |
| Feedlots | Playgrounds | Zoos |

KEEP OUT OF REACH OF CHILDREN
CAUTION
SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

NOTIFICATION LABEL NOT REVIEWED PER FR NOTICE 86-4
DATE: 7/1/93

PRECAUTIONARY HAZARDS TO HUMANS

Harmful if swallowed or absorbed. Causes moderate eye irritation, avoid contact with clothing. Food should be removed. All food processing surfaces should be treated or thoroughly cleaned. This product in these areas apply only to professional operation.
Do not breathe spray mist. Wear protective clothing as recommended by the U.S. Bureau of Occupational Safety and Health. Wash hands, arms and face before eating or drinking and before handling and before eating or drinking with soap and water. Wash birds and cover fish aquariums. Do not use in animal quarters, do not apply to animal supplements. Wash tests of...

STATEMENT OF PRECAUTION

If swallowed: Do not induce vomiting. Do not use petroleum solvent. Call a physician at once. If in eyes: Flush with water. Get medical attention.

PHYSICAL & CHEMICAL

Do not use or store near heat. Minimum: 150°F (65.5°C).

ENVIRONMENTAL

This product is toxic to fish. Do not apply directly to water, or to areas within the intertidal areas below the mean low tide where runoff is likely to occur. Conditions favor drift from area by cleaning of equipment or application of product only as specified on label.
NOTE: This spray, when applied per the directions and Additive Regulations 121.107, does not affect food additive tolerances established by FDA. This product may be applied in poultry, meat, rabbit and egg...

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EPA Reg. No. 432-612

EPA Est.: See Lot No. For Correlation
A 42545-MO-1
F 10370-TX-1 P 655-GA-1

P-1/18/91

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

NET CONTENTS:

ROUSSEL UCLAF
Roussel Uclaf Corporation
95 Chestnut Ridge Road
Montvale, New Jersey 07645

Directions For Use (c)

DIRECTIONS FOR USE (continued) EPA Reg. No. 432-612

This product is effective in the control of the indicated insects if the applicator follows the directions for use as enumerated below:

Angoumois grain moths, Ants, Boxelder bugs, Caddises, Cheese mites, Cheese skippers, Cigarette beetles, Clover mites, Confused flour beetles, Dark mealworms, Deer flies, Dried fruit beetles, Drugstore beetles, Earwigs, Fruit flies, Fungus gnats, Gnats, Grain mites, Granary weevils, Horn flies, Hornets, Horse flies, House flies, Indian meal moths, Lice, Mediterranean flour beetles, Mosquitoes, Mushroom flies, Red flour beetles, Rice weevils, Saw-toothed grain beetles, Small flying moths, Spider beetles, Stable flies, Tobacco moths, Wasps, Yellow mealworms.

INDOOR USE AS A SPACE SPRAY, UNDILUTED: Close windows and doors and shut off ventilating systems. Use a fogger or vaporizer adjusted to deliver an aerosol spray (no droplets over 50 microns in diameter and 80% less than 30 microns). Apply at a rate of 1/2 ounce per 1000 cu ft of space (14.79 ml per 28.3 cu meters). Direct the spray toward the ceiling and upper corners of the area and behind obstructions. Keep the area closed for at least 15 minutes. Vacate the treated area and ventilate before reoccupying. Repeat treatment as necessary.

The above described application will kill accessible, exposed stages of flies (including fruit flies), mosquitoes, small flying moths, gnats, wasps, hornets, clover mites, cheese mites, cheese skippers, boxelder bugs, earwigs, ants, and the following common stored product pests: granary weevil, rice weevil, confused flour beetles, saw-toothed grain beetles, spider beetles, cigarette beetles, drugstore beetles, Angoumois grain moths, Mediterranean flour moths, Indian meal moths, tobacco moths, yellow mealworms, dark mealworms, grain mites, caddises, and red flour beetles.

DRIED FRUIT PRODUCTS: In storage or being processed, for control of confused flour beetles, dried fruit beetles, Indian meal moths, saw-toothed grain beetles. Remove and destroy infested products. As noted above, disperse this product as a fine mist in the air above the trays and shelves. Do not apply to fruit directly. Use one ounce per 1000 cu ft of space (29.57 ml per 28.3 cu meters). Repeat application at this dosage in any given month. Leave the room closed for 1 hour. Do not remain in treated area and ventilate area before re-entry. This application will kill accessible, exposed stages of dried fruit beetles as well as those pests named above.

STORED FOOD: (Stored in multi-walled bags or in cloth bags) in warehouses, storage rooms, flour mills, grain elevators, granaries, for control of Angoumois grain moths, caddises, confused flour beetles, Indian meal moths, Mediterranean flour moths, rice weevils, saw-toothed grain beetles, yellow mealworms, cheese mites, cheese skippers, cigarette beetles, grain mites, granary weevils, dark mealworms, red flour beetles. Remove and destroy infested product. As noted above, disperse this product, first directing spray into corners, under pallets, hitting as many insects as possible and then treat as a space spray. Infested stored products should be fumigated or treated by other effective methods using an approved product intended for this purpose. Use a dosage of 1 fl oz per 1000 cu ft of room space (29.57 ml per 28.3 cu meters). Repeat applications as necessary for insect control. Leave the room closed for 1 hour. Do not remain in treated areas and ventilate area before re-entry. This application will kill accessible, exposed stages of those stored product pests listed above.

INDOOR USE AS A SPACE SPRAY, DILUTED: For use in conventional mechanical fogging equipment, to kill house flies, fruit flies, mosquitoes, small flying moths, and gnats. Cover or remove exposed food and food handling surfaces. Close room and shut off all air conditioning or ventilating equipment. Dilute 1 part of this product plus 49 parts of oil (refined kerosene) and mix well. Apply at the rate of 1-2 fl oz per 1000 cu ft (29.57-59.15 ml per 28.3 cu meters), filling the room with mist. Keep area closed for at least 15 minutes. Vacate treated area and ventilate before reoccupying. Repeat treatment when reinfestation occurs.

SURFACE SPRAYING: To insure maximum control of crawling insects (ants, boxelder bugs, clover mites, drugstore beetles, earwigs, lice, spider beetles) dilute 1 part of concentrate plus 49 parts of oil (refined kerosene) and mix well and apply as a coarse droplet spray using approximately 1 gallon to 750 sq ft of surface (3.79 liters to 69.68 sq meters). Spray walls, floors, and other surfaces of bins and storage and handling areas thoroughly, being especially careful to treat cracks, crevices, and similar hiding places. Treat unloading, handling and processing areas, and inside conveying, processing and handling equipment. Spray thoroughly around the base of heavy machinery and equipment. Spray insects directly when possible. For in-transit protection, clean and spray truck beds, boxcars, and ship's hold before loading. Thoroughly treat walls and floors and spray each layer of cartons or containers lightly as stacked.

TO KILL BEDBUGS AND LICE: Apply as a spot treatment to cracks and crevices, around baseboards, floorboards, bedboards and walls. First, thoroughly clean and air mattresses and springs. Then spot treat only areas that may harbor pests, concentrating on tufts, folds and seams. Repeat as necessary. For persistent infestations consult professional applicator.

To control Indian meal moths and Angoumois grain moths in stored grain, apply to the surface of binned grain at a rate of 1 gal. per 1000 sq ft (3.79 liters per 92.9 sq meters). Apply at monthly intervals with the first appearance of moths and continuing until early fall. In case of severe infestation, break up webbing with rake before spraying and make a second application in two weeks.

As an aid in the control of mosquitoes, gnats, wasps and skippers: treat walls, ceilings, moldings, screens, door and window frames, beams, light cords, and similar resting places.

ANIMAL QUARTER USE: (cattle barns, horse barns, poultry houses, swine houses, zoos): As a space spray diluted for use in conventional mechanical fogging equipment to kill house flies, mosquitoes, small flying moths, and gnats. Dilute 1 part of concentrate plus 49 parts of oil (refined kerosene) and mix well. Apply at the rate of 2 fl oz per 1000 cu ft of space (59.15 ml per 28.3 cu meters), above the animals. Direct spray towards the upper portions of the enclosure, filling the room with mist. Keep area closed for at least 15 minutes. Vacate treated area and ventilate before reoccupying. Repeat treatment when reinfestation occurs.

IN MUSHROOM PRODUCTION AND PROCESSING: To control mushroom flies or fungus gnats in growing houses, dilute 1 part of this product plus 49 parts of oil (refined kerosene) and mix well and apply at a rate of 1 oz per 1000 cu ft (29.57 ml per 28.3 cu meters) of space. Fogger should be operated 8-10 ft (2.5-3 meters) away from beds and directed slightly upward over them. Circulating fans should be left in operation, but for best results, refrigeration should be turned off. In pecking and canning plants, use at a rate of 1 oz to 2000 cu ft of space (29.57 ml to 56.63 cu meters).

OUTDOOR GROUND APPLICATION, UNDILUTED: To control adult mosquitoes, gnats, and small flying moths. For best results, apply when there is a light breeze at approximately 5 miles per hour (8 kph). Apply from the windward side so the fog will be carried across the area to be treated. Treat shrubbery and vegetation where mosquitoes may rest. Shrubbery and vegetation around stagnant pools, marshy areas and ponds may be treated. Application of this product to any body of water is prohibited. Repeat treatment as required.

Using truck-mounted equipment, the objective is to treat the area with .002 to .0025 pounds (0.91-1.13 gm) of pyrethrin and

Penick's Pyrethrins/PBO 5%-25% Concentrate should be applied without further dilution. Dispense fog at the following flow rates depending upon the speed at which the truck is moving:

TRUCK SPEED FLOW OF CONCENTRATE

5 mph (8 kph) 2 to 2.25 fl oz/min (56.15-68.54 ml/min.)
10 mph (16 kph) 4 to 4.50 fl oz/min (112.3-133.08 ml/min.)

Delivery rate and traveling speeds can be varied slightly so long as the basic objective of .002 to .0025 pounds (0.91-1.13 gm.) actual pyrethrin per acre is maintained. Use a swath width of 300 ft (91.5 meters) for acreage calculations.

To control mosquito larvae, dilute at the rate of 9 oz per 50 gals of oil (266.17 ml per 189.27 liters) and apply at the rate of 20 to 25 gals per acre (187.08 to 233.85 liters per hectare). Apply as a coarse wetting spray to the border or on shallow water of wetlands, swamps and marshes where mosquito larvae are known to breed.

TEMPORARY REDUCTION OF ANNOYANCE from house flies, mosquitoes, and small flying moths outdoors. The aforementioned application for outdoor ground application will afford temporary reduction of annoyance from these pests in public gathering places, (drive-in restaurants, drive-in theaters, golf courses, municipalities, parks, playgrounds, and recreational areas.) Direct applications into tall grasses, shrubbery and around lawns where these pests may hover or rest, apply while air is still. Avoid wetting foliage. Application should be made prior to attendance. Repeat as necessary.

In additional outdoor areas (corrals, feedlots, swine lots, and zoos), cover water, drinking fountains, and animal feed before use. Fill area with mist directing application into tall grass, shrubbery and around lawns where these pests may hover or rest. Apply while air is still. Avoid wetting foliage. In zoos, avoid exposure of reptiles to the product. Repeat as necessary.

FOR USE ON ANIMALS: To protect beef and dairy cattle, horses, and dogs from horn flies, house flies, mosquitoes, and gnats, dilute 1 part of this product, plus 49 parts oil (refined kerosene) and mix well and apply a light mist sufficient to wet the tips of the hair. To control stable flies, horse flies, and deer flies on beef and dairy cattle and horses, apply 2 oz (59.15 ml) per adult animal, sufficient to wet the hair but not to soak the hide. Repeat treatment once or twice daily or at intervals to give continued protection. To control the moulting stages of blood sucking lice on beef and dairy cattle, apply the spray to thoroughly wet the hair. Use 2 oz (59.15 ml) or less per animal and repeat every 2 to 3 weeks as required.

STORAGE & DISPOSAL

Do not contaminate water, food or feed by storage or disposal. **STORAGE:** Do not store at temperatures below 40°F (4.5°C). If this material has been exposed to temperatures below 40°F (4.5°C), there may be precipitation. Check for crystallization. If evident, warm to 80°F (26.5°C) and thoroughly mix before using. **DO NOT USE OPEN FLAME.**

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:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities.

NOTICE: Buyer assumes all responsibility for safety and use not in accordance with directions.

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