

APR 08 1991

Mr. Joseph A. Conti  
Roussel Bio Corporation  
170 Beaver Brook Road  
Lincoln Park, NJ 07035

Dear Mr. Conti:

Subject: Revised Labels

- Esbiotrin Aerosol 0.3% Synergized Insecticide  
EPA Registration No. 432-588
- SBP-1382 Insecticide Concentrate 25% Formula I  
EPA Registration No. 432-433
- SBP-1382 Pressurized Spray Insecticide 0.25%  
EPA Registration No. 432-455
- SBP-1382/Esbiothrin/Piperonyl Butoxide Insecticide  
Aqueous Pressurized Spray 0.20% + 0.10% + 0.40%  
EPA Registration No. 432-626
- Your Submissions Dated March 7 and 15, 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.

As new labels are prepared:

1. For EPA Registration No. 432-626, delete the last sentence under ENVIRONMENTAL HAZARDS. It is not appropriate for a pressurized container.
2. For EPA Registration No. 432-455, delete petroleum distillate as an active ingredient; include its percentage with the inert total, and add a substatement to the ingredient statement "Contains petroleum distillates."

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274

-2-

It is understood that the manufacturing formula on the back of the submitted labels is not considered confidential.

Submit copies of Technical Bulletin 433 for the record (EPA Registration No. 432-433).

Sincerely yours,

RFM

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

Enclosure

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# CROSSFIRE™ APS 1

with SBP-1382®/ESBIOTHRIN®/PIPERONYL BUTOXIDE 0.20%+0.10%

Authorized by USDA for use in edible product areas of official establishments operating under Shell Egg Grading and Egg Products Inspection Programs.

**ACTIVE INGREDIENTS:**

- \*Resmethrin[5-(phenylmethyl)-3-furanyl]methyl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate 0.20%/w/w
- \*d/l-allethrolone d-trans chrysanthemate 0.10%
- \*\*Piperonyl Butoxide, technical 0.40%
- INERT INGREDIENTS: 99.30%

100.00%/w/w

\*ESBIOTHRIN® -Registered trademark of Roussel-Uclaf, Inc. Min. 72% d-trans-Chrysanthemum monocarboxylic ester of d-2-allyl-4-hydroxy-3-methyl-2-cyclopenten-1-one. Max 28% Other isomers  
 \*Cis/trans isomers ratio: max 30% (±) cis. and min 70% (±) trans.  
 \*Roussel Bio's SBP-1382® brand of resmethrin insecticide Roussel Bio Corp., 400 Sylvan Avenue, Englewood Cliffs, N.J. 07632  
 \*\*Equivalent to 0.32% (Butylcarbityl)(5-Propylpiperonyl) ether and 0.08% related compounds.

ACCEPTED WITH COMMENTS  
 EPA Letter Dated APR 08 1991  
 Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 432-626

**PRECAUTIONARY STATEMENT  
 HAZARDS TO HUMANS & DOMESTIC ANIMALS  
 CAUTION**

Harmful if swallowed or absorbed through skin. Avoid breathing vapors. Do not contact with skin and eyes. Do not apply directly to food. Do not apply directly to food processing equipment. Apply while food processing is underway. After space spraying, wash all equipment, benches, shelving and processing plants, thoroughly with an effective cleaning compound. Do not handle, thoroughly with an effective cleaning compound at home. All food processing surfaces and utensils should be thoroughly washed before use. Remove pets, birds and cover aquariums.

**STATEMENT OF PRACTICAL TREATMENT**  
 For skin and eyes: In case of contact, immediately flush eyes with plenty of water. Get medical attention if irritation persists.

**ENVIRONMENTAL HAZARD**  
 This pesticide is highly toxic to fish. Do not apply directly to streams, rivers, ponds, lakes, or other bodies of water. Do not contaminate water when disposing of containers and rinsate. Do not apply to adjacent waters. Do not contaminate water when disposing of containers and rinsate. Do not puncture or incinerate containers under pressure. Exposure to temperatures above 130°F may cause the container to burst. Do not apply this product in conduits, motor housings, juicers, or electrical equipment because of possible shock hazards.

**KEEP OUT OF REACH OF CHILDREN  
 CAUTION**

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND STATEMENT OF PRACTICAL TREATMENT

A Synthetic pyrethroid for controlling the following flying and crawling insects in and around households, greenhouses, buildings, vehicles, boats, kennels and stables.

- |                        |                         |                    |
|------------------------|-------------------------|--------------------|
| <b>FLYING INSECTS</b>  | <b>CRAWLING INSECTS</b> | <b>PLANT PESTS</b> |
| house flies            | cockroaches             | leaf beetles       |
| mosquitoes             | waterbugs               | gypsy moths        |
| gnats (midges)         | bedbugs                 | tussock moths      |
| deer flies             | ticks                   | oakworms           |
| stable flies           | ants                    | sawflies           |
| flying moths (millers) | crickets                | tent caterpillars  |
| fruit flies            | fisherfish              | weevils            |
| wasps                  | boxelder bugs           | rose slugs         |
| hornets                |                         | spider mites       |
| yellow jackets         |                         | red spider mites   |
| bees                   |                         | cutworms           |
|                        |                         | Japanese beetles   |
|                        |                         | mirid webworm      |
|                        |                         | armyworms          |
|                        |                         | budworms           |

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

**Storage:** Keep in locked storage. Container disposal: Replace cap and discard.

**FOR USE IN HOUSES AND OUTSIDE PREMISES OF HOMES, SCHOOLS, NURSERIES, DAY CAMPS, GREENHOUSES, FOOD HANDLING ESTABLISHMENTS, PACKAGING COMMERCIAL, INDUSTRIAL, OFFICE, INSTITUTIONAL, MEAT HANDLING AREAS OF MILK PLANTS, MILK STORAGE PLANTS, SUPERMARKETS, RESTAURANTS, BOTTLING AND FEED MILLS, BAKERIES, BOATS, SHIP CABINS AND IN HOSPITALS: PATIENTS SHOULD BE REMOVED FROM ROOMS FOR 2 HOURS BEFORE RETURNING PATIENTS TO MOBILE HOMES, BUSES, AUTOMOBILES, TRUCKS, TRAILERS, AND HOLDERS. ALSO FOR USE IN DOG KENNELS AND HORSE STABLES. NOT FOR APPLICATION IF HORSES WILL BE USED FOR MEAT OR HORSE FOOD OR FEED ITEMS.**  
 Do not use this product in or on electrical equipment due to the risk of fire. Shake well before using. Remove protective cap. Aim spray nozzle and spray button to spray.  
**INDOORS:** For use in households, commercial and institutional buildings, greenhouses, lathhouses, campers, mobile homes, vehicles and boats, and

SHAKE WELL BEFORE USING  
 EPA Reg. No. 432-626      F 10370-TX-1      A 42545-MO-1      P-12/05/89  
 GPA Est.: See Lot No. For Correlation      P 655-GA-1

**ROUSSEL BIO CORPORATION**  
 PO Box 1077, 400 Sylvan Avenue  
 Englewood Cliffs, New Jersey 07632

NET CONTENTS:

**DIRECTIONS FOR USE (Continued on next page)**  
**BEST AVAILABLE**  
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## Directions for use (continued)

**TO KILL FLYING INSECTS:** House flies, mosquitoes, gnats (midges), deer flies, stable flies, flying moths (millers), fruit flies. 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, HORNETS, YELLOW JACKETS, BEES:** Application should be made in late evening when insects are at rest. Spray liberally into hiding and breeding places, especially under attic rafters, contacting as many insects as possible. Repeat as necessary.

**TO KILL CRAWLING INSECTS:** Fleas, cockroaches (waterbugs), crickets, silverfish, boxelder bugs, earwigs, spiders, sowbugs, centipedes, millipedes, grain mites and grain insects (adults and accessible stages of confused flour beetles, red flour beetles, saw-toothed grain beetles, shiny spider beetles, carpet beetles, grain weevils, Angoumois grain moths, Indian meal moths): Spray thoroughly into hiding places such as cracks, crevices, moist areas, openings around pipes and sinks, under refrigerators, baseboards, storage areas and other insect harborage areas. Spray directly on insects where possible. Repeat as necessary.

**GRAIN INSECTS:** For control of the insect pests listed above, remove and destroy infested grain, cereal and flour. Avoid contamination of other food and foodstuffs in the area by removing before spraying. Spray directly on exposed stages and into cracks and crevices where grain insects may be hiding. In homes, dispose of all infested products. The shelves and drawers should be cleaned and thoroughly sprayed so as to contact all pests, and covered with shelf paper after allowing the shelves to dry. Any utensils that are contacted with spray should be washed before using. Repeat as necessary.

**TO KILL SPIDERS:** Spray directly on these pests and use repeated applications to the webbing and all cracks and crevices which harbor spiders.

**TO KILL ANTS:** Spray doors, around window frames, ant trails, and hills.

**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 KILL FLEAS & TICKS ON DOGS, CATS & PREMISES:** Apply directly to animals along back, under forelegs and on other areas except scrotum and anus. Part hair to contact skin and insure good coverage. Hold nozzle about one foot away while spraying. Apply until hair is thoroughly moist. Do not spray in eyes or mouth of animal. Repeat within 24 hours of first treatment if necessary. To reduce reinfestation, thoroughly spray the animal's bedding and other resting areas until the surface is slightly moist. Treat these areas at the rate of 2 seconds per linear foot (0.3m) at a distance of 12 to 18 inches (30 to 46 cm). Also spray the entire inside surface of dog houses. Repeat as necessary, thoroughly spraying floors, cracks, crevices and bedding. Hit as many insects directly as possible.

**TO PROTECT ORNAMENTAL PLANTS** in greenhouses, lathouses, homes, commercial and institutional buildings and for indoor landscaping: Spray directly on insects as directed below to kill aphids, exposed thrips, whiteflies, lace bugs, leafhoppers, plant bugs, spittlebugs, two-spotted mites, red spider mites, spider mites, cutworms and rose slugs on the following plants:

African violet	dumbcane	mayten tree
ageratum	fatsihedera	nasturtium
amaranth	asparagus fern	petunia
falsie aralia	fuchsia	philodendron
begonia	geranium	pothos
Christmas cactus	heliotrope	rose
chrysanthemum	hibiscus	snapdragon
cockatocomb	impatiens	silver vase
coleus	ivy	toyon
gold dust croton	jade	verbena
cup flower	Jacob's ladder	umbrella tree
daisy	lilac	wax plant
daphne	lobelia	zinnia
dracaena	marigold	

**CONTACT SPRAY FOR PESTS LISTED ABOVE:** Hold container 18 inches (46 cm) from infested plants. Spray in short bursts from one to three seconds, or spray at the rate of 1 linear foot (0.3 m) of growth per second. Direct spray to all sides covering foliage until slightly moist. Avoid heavy wetting. Repeat as necessary to obtain control. If application is made indoors, remove infested plants from living and eating areas prior to spray application. Spray several plants at once and in an area not likely to come in contact with pets, children or food. When leaves dry, plants can be returned to original position. If plant removal is not possible, remove or cover exposed food and food handling surfaces, including utensils. Shut off ventilating systems, air ducts and air conditioning equipment. Avoid spray contact with surrounding surfaces in area. Leave the sprayed area after treatment and ventilate.

**USE WITH CAUTION** on African violet, ash, azalea, Reiger begonia, browalia, caenothus, camelia, columnea, coloneaster, cyclamen, cypress, plumosa fern, gloxinia, impatiens, juniper, non-bearing mulberry and quince, oxalis, jade and primrose. As with all plants above, especially carnations, chrysanthemums, and roses, there exists a wide variety of species and cultivars and therefore a wide variety of susceptibility to injury. To ascertain possible phytotoxicity, spray a few plants as described above, wait 24 hours and check for possible injury.

**OUTDOORS:** For use around residential, commercial and institutional buildings, gardens, greenhouses, yards, patios, mobile homes, campers, boats and swimming pools for controlling household and plant pests listed below.

**To kill house flies, mosquitoes, gnats (midges), deer flies, stable flies, flying moths (millers), fruit flies:** Spray resting areas to reduce annoyance from these pests. Follow precautions listed above. Hold container 18 to 24 inches (46 to 61 cm) from shrubs, bushes and grassy areas. Spray these areas with a slow sweeping motion at the rate of from 1 to 3 seconds per cubic yard (0.77 m<sup>3</sup>) of space while moving away from the treated area. Treat open porches and patios in a similar manner. Spray only when the air is still. Allow spray to dissipate before occupying the treated area. Repeat as necessary.

## EPA Reg.432-626

**Wasps, hermits, yellow jackets, bees:** Same as directed above for indoor use. Application should be made late in the evening when insects are at rest. Aim spray at nest openings in ground, bushes, and in cracks and crevices which may harbor nests, saturating nest openings and contacting as many insects as possible. Repeat as necessary.

**Ants and fleas:** Same as directed above for indoor use.

**Crickets, silverfish, earwigs, boxelder bugs, spiders, sowbugs, centipedes, and millipedes:** Same as directed above for indoor use. **TO PROTECT ORNAMENTAL PLANTS:** Spray directly on insects as directed below to kill aphids, exposed thrips, whiteflies, leafhoppers, Japanese beetles, plant bugs, spittlebugs, two-spotted mites, red spider mites, lace bugs on:

althia	maple	rhododendron
white birch	mimosa	spirea
cypress	non-bearing citrus	spruce
dogwood	and cranberry	toyon
eucalyptus	oak	
forsythia	palm	also:
hemlock	vitaminum	mimosa webworm
holly	pine	on mimosa
locust	pyracantha	

**To kill armyworms, budworms, leaf beetles, gypsy moths, tussock moths, cutworms, sawflies, tent caterpillars, and weevils on the above plants:** also rose slugs on roses, spider mites on chrysanthemums, cutworms on gladiolus and petunia. **To kill aphids, exposed thrips, adult whiteflies, leafhoppers, plant bugs, spittlebugs, lace bugs and Japanese beetles on:**

African violet	daphne	nasturtium
ageratum	fatsihedera	peony
begonia	geranium	philodendron
broadleaf acacia	honeysuckle	queen sage
chrysanthemum	iris	rose
coleus	ivy	snapdragon
daisy	marigold	tobira
		zinnia

**Contact Spray Directions For Above Pests:** Hold container 18 in (46 cm) from the infested plants. Spray in short bursts from 1 to 3 seconds or spray at the rate of 1 linear foot (0.3m) of growth per second. Direct spray to all sides covering foliage until slightly moist. Avoid heavy wetting. Repeat as necessary to obtain control. For adult whiteflies and two-spotted mites be sure to direct spray to contact pests. Thoroughly cover the infested area. Use several repeat applications at two-day intervals, if necessary.

**Use With Caution:** on African violet, ash, azalea, Reiger begonia, browalia, caenothus, camelia, columnea, coloneaster, cyclamen, cypress, plumosa fern, gloxinia, impatiens, juniper, non-bearing mulberry, flowering quince, oxalis, jade, primrose and rose, including hybrid japonica. These plants may be subject to leaf and flower burn under certain conditions of use. As with all plants listed above, especially carnations, chrysanthemums and roses, there exists a wide variety of species and cultivars and therefore a wide range of susceptibility to injury. To ascertain possible phytotoxicity, spray a few plants as described above, wait 24 hours and check for possible injury.

### WARRANTY STATEMENT

Our recommendations for use of this product are based upon tests believed to be reliable. The use of this product 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 or such, or in combination with other materials.

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