

SYNEROL® INSECTICIDE

In case of Medical emergencies or health and safety inquiries or in case of fire, leaking or damaged containers, information may be obtained by calling 1-800-334-7577.

- * FOR USE BY TRAINED PERSONNEL ONLY
- * TO BE APPLIED ONLY BY OR UNDER SUPERVISION OF PEST CONTROL OPERATORS, MEMBERS OF MOSQUITO ABATEMENT DISTRICTS OR PUBLIC HEALTH ORGANIZATIONS AND OTHER TRAINED PERSONNEL RESPONSIBLE FOR INSECT CONTROL PROGRAMS.
- * MAY BE USED OVER ALL CROPS
- * THE ACTIVE INGREDIENTS ARE EXEMPT FROM TOLERANCE WHEN APPLIED TO GROWING CROPS [SEE 40 CFR §180.1001(b)]

ACTIVE INGREDIENTS:

Pyrethrins	2.5%
*Piperonyl Butoxide, Technical	12.5%
**OTHER INGREDIENTS:	85.0%
	100.0%

*Equivalent to 10%(butylcarbityl)(6-propylpiperonyl)ether and 2.5% related compounds.
 Synerol is a registered trademark of Aventis Environmental Science ,
 **Contains petroleum distillates.

EPA REG. NO. 432-1073 EPA EST. NO.

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID

IF SWALLOWED: Call a doctor or get medical attention. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Avoid alcohol.

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention.

IF IN EYES: Flush eyes with plenty of water. Call a physician if irritation persists.

ACCEPTED
 JAN 4 2001

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended for the pesticide registered under Synerol 1001996
 EPA Reg. No. 432-1073

See Rear Panel For Additional Precautions

NET CONTENTS:

PRECAUTIONARY STATEMENTS

Hazards to Humans & Domestic Animals

CAUTION

Harmful if swallowed, inhaled or absorbed through skin. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist. Wear a mask or respirator of a type recommended by the U.S. Bureau of Mines to give adequate protection against this material. Wear protective clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse. Remove pets, birds and cover fish aquaria before spraying.

Do not apply directly to food. Do not apply as a space spray while food processing is underway. Foods should be removed or covered before treatment. Thoroughly wash all food processing surfaces before reuse. In food processing plants and Federally inspected meat and poultry plants, all surfaces in processing areas must be washed and rinsed in potable water after spraying. Except in Federally inspected meat and poultry plants, food processing operations do not have to be stopped while applying a wet spray with care and in accordance with the directions given herewith.

When using in animal quarters, do not apply directly to food, water or food supplements. Wash teats of dairy animals before milking.

Environmental Hazards

This product is toxic to fish. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of wastes. Shrimp and crabs may be killed at application rates recommended on this label. Do not apply where these are important resources.

DIRECTIONS FOR USE

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

For indoor or outdoor application as a space, area or contact spray. Dependent upon pests to be controlled and the area to

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage and Spill Procedures: Store upright at room temperature. Avoid exposure to extreme temperatures. In case of spill or leakage, soak up with an absorbent material such as sand, sawdust, earth, fuller's earth, etc. Dispose of with chemical waste.

Pesticide Disposal: Pesticide spray mixture or rinse water that cannot be used according to label instructions may be disposed of on site or by 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 approved State and local procedure.

Containers One Gallon and Smaller: Do not reuse container. Wrap container in several layers of newspaper and discard in trash.

be treated, may be applied through mechanical aerosol generators (ULV) or thermal fogging equipment as well as conventional fogging or spraying equipment.

INDOOR USE AREAS - Bakeries, Beverage Plants, Canneries, Cattle Barns, Dried Food Products In Storage Or Processing, Flour Mills, Food Processing Plants, Grain Elevators, Granaries, Horse Barns, Homes, Hospitals, Hotels, Industrial Installations, Meat Packing Plants, Motels, Office Buildings, Poultry Houses, Railroad Cars, Restaurants, Schools, Ships' Holds, Stored Food In Multi-walled Paper Or Cloth Bags, Supermarkets, Swine Houses, Tobacco Factories, Tobacco Warehouses, Truck Trailers, Warehouses, Wineries.

OUTDOOR USE AREAS - Corrals, Drive-in Restaurants, Drive-in Theaters, Feedlots, Golf Courses, Parks, Playgrounds, Recreational Areas, Swine Yards, Urban Areas, Vineyards, Zoos.

Synerol effectively controls the following insects when application follows the directions for use as given below.

All common Diptera

- | | | |
|-------------------------------|----------------------------------|---------------------------------|
| <i>Angoumois Grain Moths</i> | <i>Drugstore Beetles</i> | <i>Mosquitoes</i> |
| <i>Ants</i> | <i>Earwigs</i> | <i>Red Flour Beetles</i> |
| <i>Boxelder Bugs</i> | <i>Fleas</i> | <i>Rice Weevils</i> |
| | <i>Fruit Flies</i> | <i>Sawtoothed Grain Beetles</i> |
| <i>Cadelles</i> | <i>Grain Mites</i> | <i>Cheese Mites</i> |
| <i>Granary Weevils</i> | <i>Silverfish</i> | |
| <i>Cheese Skippers</i> | <i>Horn Flies</i> | <i>Small Flying Moths</i> |
| <i>Cigarette Beetles</i> | <i>Hornets</i> | <i>Spiders</i> |
| <i>Clover Mites</i> | <i>Horse Flies</i> | <i>Spider Beetles</i> |
| <i>Cockroaches (German)</i> | | <i>House Flies</i> |
| <i>Stable Flies</i> | | <i>Indian Meal Moths</i> |
| <i>Confused Flour beetles</i> | | |
| <i>Tobacco Moths</i> | | |
| <i>Crickets</i> | <i>Lice</i> | <i>Wasps</i> |
| <i>Dark Mealworms</i> | <i>Mediterranean Flour Moths</i> | <i>Yellow Mealworms</i> |
| <i>Deer Flies</i> | | |
| <i>Dried Fruit Beetles</i> | | |

INDOOR USE, UNDILUTED

The use of this product in food processing or food handling establishments (bakeries, beverage plants, canneries, food processing plants, hospitals, hotels, industrial installations, meat packing plants, restaurants, schools, supermarkets and warehouses) should be confined to time periods when the plants or facilities are not in operation. Foods should be removed or covered during treatment. All food processing surfaces should be covered during treatment or thoroughly cleaned before reusing.

SPACE AND CONTACT SPRAY APPLICATION

To control accessible adult stages of:

- | | |
|-----------------------------|---------------------------|
| <i>Ants</i> | <i>Fleas</i> |
| <i>Boxelder Bugs</i> | <i>Flies</i> |
| <i>Cheese Mites</i> | <i>Fruit Flies</i> |
| <i>Cheese Skippers</i> | <i>Hornets</i> |
| <i>Clover Mites</i> | <i>Mosquitoes</i> |
| <i>Cockroaches (German)</i> | <i>Silverfish</i> |
| <i>Crickets</i> | <i>Small Flying Moths</i> |
| <i>Earwigs</i> | <i>Wasps</i> |

and the following common stored product pests:

- | | |
|-------------------------------|----------------------------------|
| <i>Angoumois Grain Moths</i> | <i>Indian Meal Moths</i> |
| <i>Cadelles</i> | <i>Mediterranean Flour Moths</i> |
| <i>Cigarette Beetles</i> | <i>Red Flour Beetles</i> |
| <i>Confused Flour Beetles</i> | <i>Rice Weevils</i> |
| <i>Dark Mealworms</i> | <i>Sawtoothed Grain Beetles</i> |
| <i>Drugstore Beetles</i> | <i>Spider Beetles</i> |
| <i>Granary Weevils</i> | <i>Tobacco Moths</i> |
| <i>Grian Mites</i> | <i>Yellow Mealworms</i> |

Close doors and windows and shut off ventilating systems. Use a mechanical aerosol generator or a fogger adjusted to deliver aerosol droplets (30 microns or less). Direct the spray first into all cracks and crevices, behind all equipment, cupboards, obstructions or dark harborage areas to provide maximum penetration and impingement on the insects. Then treat as a space spray, directing the spray towards the ceiling and upper corners of the area and behind any obstructions, apply at a rate of 0.4 ounce per 1000 cubic feet of space. Keep area closed for at least one hour. Vacate treated area and ventilate before reoccupying. Repeat treatment as necessary.

TREATMENT OF STORED FOOD AREAS

Foods in multi-walled bags or in cloth bags stored in warehouses, storage rooms, flour mills, grain elevators and granaries.

To control accessible adult stages of:

- | | |
|-------------------------------|----------------------------------|
| <i>Angoumois Grain Moths</i> | <i>Granary Weevils</i> |
| <i>Cadelles</i> | <i>Grain Mites</i> |
| <i>Cheese Mites</i> | <i>Indian Meal Moths</i> |
| <i>Cheese Skippers</i> | <i>Mediterranean Flour Moths</i> |
| <i>Cigarette Beetles</i> | <i>Red Flour Beetles</i> |
| <i>Confused Flour Beetles</i> | <i>Rice Weevils</i> |
| <i>Dark Mealworms</i> | <i>Sawtoothed Grain Beetles</i> |
| <i>German Cockroaches</i> | <i>Yellow Mealworms</i> |

Infested stored products should be destroyed, fumigated or treated by other effective methods using an approved product intended for this purpose. As noted above, disperse Synerol first by directing spray into cracks and crevices, corners, under pallets, and around stacks of packaged goods - hitting as many insects as possible and then apply as a space spray at a dosage of 2.5 ounces per 1000 cubic feet of room space. Repeat application as necessary for insect control. Leave the treated areas closed for one hour. Do not remain in the treated area and ventilate before reentry.

INDOOR USE, DILUTED

SPACE SPRAY APPLICATION: For use in mechanical fogging or spray equipment.

To control accessible stages of:

- | | | |
|--------------|-------------------|---------------------------|
| <i>Flies</i> | <i>Mosquitoes</i> | <i>Small Flying Moths</i> |
|--------------|-------------------|---------------------------|

Fruit Flies**Gnats**

Cover or remove exposed food and cover food handling surfaces in edible product areas of food handling establishments. Close rooms and shut off air conditioning or ventilating equipment. Mix 6 ounces of Synerol with suitable solvent oil to equal 1 gallon of diluted spray. Apply at the rate of 1-2 fluid ounces per 1000 cubic feet, filling the room with mist. For use in Thermal Fogging Equipment mix 8.5 ounces of Synerol with suitable solvent oil to equal 1 gallon of diluted spray. Apply at the rate of 1-2 fluid ounces per 1000 cubic feet, filling the room with fog. Keep area closed for at least 15 minutes. Vacate treated area and ventilate before reoccupying. Repeat treatment if reinfestation occurs. Do not apply while food processing is underway.

ANIMAL QUARTER USE: (Cattle barns, horse barns, poultry houses, swine houses, zoos): As a space spray, dilute for use in conventional fogging or spraying equipment.

To Control: **Fleas** **Gnats** **Small Flying Moths**

Flies **Mosquitoes**

Mix 2.56 ounces of Synerol with suitable solvent oil to equal one gallon of diluted spray. Apply at the rate of 2 ounces per 1000 cubic feet of space 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 area and ventilate before reoccupying. Repeat treatment if reinfestation occurs.

SURFACE SPRAY APPLICATION

To Control Accessible stages of:

Ants	Fleas
Boxelder Bugs	German Cockroaches
Clover Mites	Lice
Crickets	Silverfish
Drugstore Beetles	Spider Beetles
Earwigs	

Mix 6 ounces of Synerol with sufficient oil to equal one gallon of diluted spray. Apply as a coarse droplet spray using approximately one gallon to 750 square feet of space. 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 include 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 ships' holds before loading. Thoroughly treat walls and floors and spray each layer of cartons or containers lightly as stacked.

TREATMENT OF STORED GRAIN

To control accessible adult stages of:

Indian Meal Moths **Angoumois Grain Moths**

Apply to the surface of binned grain at a rate of 1 gallon per 1000 square feet. Apply at monthly intervals with the first appearance of moths and continue until early fall. In severe infestations, break up webbing with a rake before spraying and make a second application in two weeks.

TREATMENT OF FLYING INSECTS' RESTING PLACES

To aid in the control of:

Mosquitoes **Small Flying Moths** **Gnats**
Treat walls, ceiling, moldings, screens, door frames, window frames, beams, light cords and similar resting places with the above dilution of Synerol.

OUTDOOR APPLICATION, DILUTED**USE IN MOSQUITO CONTROL**

Synerol may be used for mosquito control programs involving residential, industrial, recreational and agricultural areas as well as swamps, marshes, overgrown waste areas, roadsides and pastures where adult mosquitoes occur. Synerol may be used over all crops because its ingredients are exempt from tolerances when applied to growing crops. For best results, apply when meteorological conditions create a temperature inversion and wind speed does not exceed 10 miles per hour. The application should be made so the wind will carry the insecticidal fog into the area being treated.

Treatment may be repeated as necessary to achieve the desired level of control.

Applications in drive-in theaters, drive-in restaurants, golf courses, urban areas, parks, playgrounds and other recreational areas should be made prior to opening the facilities for use by the public. Direct the spray into tall grass, shrubbery and around lawns, where these pests may hover or rest. Apply while the air is still and avoid wetting foliage. Allow surfaces to dry before allowing adults, children or pets to enter the area. Repeat as necessary.

In treatment of corrals, feedlots, swine lots and zoos, cover any exposed water, drinking fountains and animal feed before application. Fill the area with mist and direct the spray into tall grass, shrubbery and around lawns where the above pests may hover or rest. Apply while the air is still and avoid wetting foliage. In zoos, avoid exposure of reptiles to the product. Repeat as necessary.

When used in cold aerosol generators that produce a fog with the majority of droplets in the 10-25 micron VMD range, Synerol should be diluted with light mineral oil or other suitable solvent (specific gravity of approximately 0.8 at 60°F; boiling point: 500-840°F). An N.F. grade oil is preferred.

GROUND APPLICATION: To control adult mosquitoes and all common diptera, apply up to 0.0025 pounds of pyrethrins per acre (use a 300 foot swath width for acreage calculations).

Truck-Mounted ULV Application: The delivery rate and truck speed may be varied as long as the application rate does not exceed 0.0025 pounds of pyrethrins per acre (use a 300 foot swath width for acreage calculations).

Backpack Spray Application: Dilute 2.4 parts of Synerol with 12 parts oil and apply at the rate of 7 ounces per acre (based on a 50 foot swath, 7 ounces should be applied while walking 870 feet).

AERIAL APPLICATION (FIXED WING AND HELICOPTER): To control adult mosquitoes and all common diptera, apply up to 0.0025 pounds of pyrethrins per acre with equipment designed

and operated to produce a ULV spray application.

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following conditions, disclaimer of warranties and limitations of liability.

CONDITIONS: The directions for use of this product are believed to be adequate and should be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Aventis Environmental Science USA LP. All such risks shall be assumed by the user or buyer.

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Aventis Environmental Science USA LP
95 Chestnut Ridge Road
Montvale, NJ 07645

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