

S A SOUTHERN
5 0 AG®



PERMETROL

LAWN INSECTICIDE



CONTAINS PERMETHRIN 10% E.C.
USE ON LAWNS, GARDENS AND FRUIT TREES
EFFECTIVE CONTROL OF HARD TO KILL INSECT PESTS
LOW ODOR FORMULA

ACTIVE INGREDIENT:
Permethrin* 10.0%
OTHER INGREDIENTS:** 90.0%
100.0%



*Cis/trans ratio: Min. 35% (+/-) cis and max. 65% (+/-) trans.

**Contains petroleum distillate.



KEEP OUT OF REACH OF
CHILDREN
WARNING

PRECAUCION AL USARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada amplimente.



See inside of label for additional precautionary statements and Directions for Use.

Southern Agricultural Insecticides., Inc.

Palmetto, Fla. 34220
EPA Est. No. 829-FL-1

Hendersonville, N.C. 28793
J2

Boone, N.C. 28607
EPA Reg. No 829-297

Net Contents: 1 Gallon (3.785 liters)

Southern
Agricultural Insecticides, Inc.
P.O. Box 218
Palmetto, FL 34220



FIRST AID

IF ON SKIN or CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF SWALLOWED: Contact a physician or Poison Control center immediately. Drink promptly a large quantity of skim milk, egg whites or gelatin solution, or, if these are not available, large quantities of water. Do not induce vomiting unless under physician's care. Avoid alcohol. Do not give anything by mouth to an unconscious or convulsing person.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for treatment advice.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

NOTE TO PHYSICIAN: Contains petroleum distillate - vomiting may cause aspiration pneumonia.

Have the product container label with you when calling a poison control center or doctor, or going for treatment.

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.

PRECAUTIONARY STATEMENTS

Hazards To Humans & Domestic Animals

WARNING: Causes skin irritation and moderate eye injury. Do not get on skin or clothing. **Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.** Harmful if inhaled. Avoid breathing vapor and spray mist and contact with eyes. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. When mixing or applying, wear long sleeved shirt, long pants, socks, shoes and chemical resistant gloves. Spray with the wind to your back. Do not spray on windy days. Do not allow children or pets to go onto treated area until the treated areas such as grass or soil has dried.

Environmental Hazards

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area. This product is extremely toxic to fish. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems. Apply this product only as specified on this label.

Physical or Chemical Hazards

Do not use or store near heat or open flame

DIRECTIONS FOR USE

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

Not for use on plants being grown for sale or other commercial use, or for commercial seed production or for research purposes. Do not water the treated area to the point of run-off. Do not make applications during rain.

All outdoor applications must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses: (1) Treatment to soil or vegetation around structures, (2) Applications to lawns, turf and other vegetation, (3) Applications to building foundations, up to a maximum height of 3 feet. Other than applications to building foundations, all outdoor applications to impervious surfaces such as sidewalks, driveways, patios, porches and structural surfaces (such as windows, doors and eaves) are limited to spot and crack-and-crevice applications only.

HOW TO MIX AND APPLY

Mix the recommended amount of SA-50 Permetrol per gallon (3.79 liters) of water and apply in accordance with the directions below. Food utensils such as teaspoons or measuring cups should not be used for food purposes after use with pesticides. Where appropriate, measure the area to be treated by measuring the length and width then multiply to determine the square footage of the area. Apply SA-50 Permetrol as a coarse spray with a pump-up or other type of hand-held sprayer. When mixing, fill the sprayer with half of the water first and then measure and add the appropriate amount of SA-50 Permetrol followed by the remaining water. Thorough spray coverage is necessary, but avoid spray run-off.

MEASUREMENT CONVERSION CHART

1 teaspoon = 0.17 fl.oz. = 5 ml. 1 ounce = 6 teaspoons = 29.6 ml.

ORNAMENTAL PLANTS

For use on ornamental plants, mix SA-50 Permetrol with water in the following manner:

Permethrin 10%	Water
1/3 teaspoon (2 ml)	1 Quart
1 1/3 teaspoon (7 ml)	1 Gallon (3.79 L)

NOTE: Do not use more SA-50 Permethrin 10% than recommended, as this may cause some plant injury. Use this dilution unless other instructions are given.

CONTACT AND RESIDUAL SPRAY:

Apply a diluted spray of SA-50 Permetrol. Use sufficient spray to obtain full coverage of all foliage.

HOUSE PLANTS: To protect plants in indoor landscaping, spray directly on insects to kill **leafrollers, armyworms, cutworms, cabbage worms on chrysanthemums; fungus gnats** on velvet plants. Spray as directed above to control **aphids, armyworms, Japanese beetles, leafminers, leafrollers, mealybugs, scales, spider mites, spring cankerworms, exposed thrips and whiteflies** on the following plants:

Ageratum	English Ivy	Poinsettia
Ardisia	Fuchsia	Portulaca
Aster	Gladiolus	Pothos
Azalea	Grape Ivy	Prayer Plant
Baby's breath	Hypoestes	Purple Passion
Begonia	Ivy	Rabbits foot fern
Birds-nest fern	Juniper	Rose
Bleeding heart	Lily	Schefflera
Carnation	Marigold	Snapdragon
Chrysanthemum	Orchid	Snake Plant
Coleus	Palm	Statice
Crown of Thorns	Pansy	Velvet Plant
Cockscomb	Piperomia	Verbena
Cyclamen	Petunia	Zinnia
Dracaena	Philodendron	
Dumbcane	Piggy-back plant	

Remove infested plants from living areas prior to application. Spray plants outside in an area not likely to be occupied by children or pets (particularly fish). When leaves dry, plants can be returned to original location.

Use with care on ferns, palms and fuchsia. As with all plants listed 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.

Repeat applications may be necessary to control **Citrus Blackflies** on non-bearing citrus; **Adult Japanese beetles** on roses.

OUTDOOR ORNAMENTALS: Use 1 1/3 teaspoon (7 ml) of SA-50 Permetrol in one gallon of water.

CONTACT AND RESIDUAL SPRAY - Apply a finished spray of SA-50 Permetrol. Use sufficient spray to obtain full coverage of all foliage. Spray in the late afternoon or evening when the temperature ranges from 50° F to 85° F and when there is little or no wind. Spray at the first indication of insect pests. Repeat as necessary; use intervals of

4 to 8 days. SA-50 Permetrol application can be made up to the day of collection.

Spray as directed above to control **Aphids, Cicadas, Corn Earworms, Fall Cankerworms, Inchworms, Leafminers, Leafrollers, Mealybugs, Bagworms, Spider Mites, Exposed Thrips and Whiteflies** on the following plants:

Ageratum	Gladiolus	Pea shrub
Arizona Cypress	Gold bells	Petunia
Aster	Hypoestes	Philodendron
Azalea	Ivy	Poinsettia
Begonia	Lilac	Rhododendron
Coleus	Marigold	Rose
Common ninebark	Mock Orange	Snapdragon
Common Snowberry	Nannyberry	Taxus
Elm	Orchid	Wax plants
Exacum	Palm	Weeping fig
Euonymus	Pans	Zinnia
English Ivy		

FOR ORNAMENTAL TREES GROWN AROUND THE HOME: Use sufficient spray to obtain full coverage of all foliage. Avoid heavy wetting. Use to control: pine moths, pine needle miners, pine beetles and needle scales on pine; budworms on conifers; oakworms on oak; fall webworms on cherry, elm and honeysuckle; aphids on tulip poplar; citrus black flies on non-bearing citrus; tussock moths on Douglas and grand firs; leafminers on birch; elm leaf beetle and elm spanworms on elms.

TO KILL TENT CATERPILLARS: Application should be made when caterpillars are young and tents are first noticed. For best results, apply in the late afternoon or evening when caterpillars have returned to their tents. Mix 2.5 fl. oz. (74 ml) of this product in one gallon (3.79 L) of water. Wet tents with spray on all sides. A few caterpillars may be seen escaping from the tent, however, they should die within several hours.

TICKS (Lone Star, Bear, Black Legged), FLEAS, CRICKETS and EARWIGS:

For treatment of localized infestations of these insects in outdoor areas where there are weeds or bushy non-crop areas. Mix 6.5 fl. oz. (192 ml) of SA-50 Permetrol in one gallon of water (1 2/3 fl. oz. or 49 ml per quart) and spray infested areas thoroughly.

LAWN APPLICATIONS

For control of *Ants (including foraging fire ants - aids in the control), Armyworms, Chinch bugs, Crickets, Cutworms, Japanese Beetle Grubs, Grasshoppers, Mole Crickets* and *Sod Webworms*, consult the following chart.

PESTS	DILUTION	REMARKS
Armyworms Mole crickets	7 tsp/10 gal water/1000 ft ²	For surface feeders (armyworms, cutworms, chinch bugs, sod webworms), delay watering or mowing for 24 hours. For subsurface feeders (Japanese beetle grubs, mole crickets), irrigate with 1/4 inch of water immediately after application. For best results, delay watering or mowing for 24 hours after treatment.
Cutworms Sod webworm	(35 ml/38 L water/93m ²)	
Chinch bugs		
Japanese beetle grubs		
Crickets	3 tsp/3 gal water/1000 ft ²	
Grasshoppers	(15 ml/11.4 L water/93m ²)	
Ants (including foraging Fire Ants)		

Lawns should be no taller than 3 inches (7.6 cm) at time of application. Slightly more water may be used as long as the amount of product per area is as listed above. For heavy infestations, repeat application after two weeks.

Also for control of *cutworms* on dichondra and Irish moss. Use as directed above for lawns.

VEGETABLE APPLICATIONS

(For Backyard Vegetable Gardens Only): Prepare SA-50 Permetrol as directed in the following chart. Use 0.25 gallons (1 quart) of finished spray per 110 square feet.

Vegetable	Recommended Permethrin 10% Target Pest(s)	Dilution Use Rate	Finished Spray	Remarks	tsp/gal
Asparagus (pre-harvest)	Cutworm			Apply for uniform coverage as needed. Do not apply more than 4 applications per crop. Can be applied up to 3 days prior to harvest.	1
	Asparagus Beetle				
(post-harvest)	Larval stages of Asparagus Beetle, Tarnished Plant Bug,			Treat ferns or bush growth after spear harvest when Lygus Bugs, and insects are present.	1
	Adult Japanese Beetle				
Celery	Vegetable Leaf Miner,			Apply every 3-5 days or as needed. Can be applied up to 3 days prior to harvest. Do not make more than 10 applications per season.	2
	Cabbage Looper,				
	Black and Granulate Cutworm,				
	Fall, Beet and Southern Armyworm				

Recommended Permethrin 10% Dilution Use Rate Finished Spray

<u>Vegetable</u>	<u>Target Pest(s)</u>	<u>Remarks</u>	<u>tsp/gal</u>
Cole Crops: Broccoli,	Beet Armyworm, Brussels Sprouts,	Apply every 5 days or as needed. Diamond Back Moth. Can be applied up to one day	1
Cabbage, Cauliflower	Imported Cabbageworm, Cabbage-aphid, Cabbage Looper	prior to harvest. Do not make more than 8 applications on Cauliflower, Brussels Sprouts and Broccoli and 10 applications on Cabbage.	
Eggplant	Colorado Potato Beetle, Vegetable Leaf Miner	Apply for uniform coverage as needed. Do not exceed 16 applications. Can be applied up to 3 days prior to harvest.	2
(foliar application)	Imported Crucifer Weevil	Apply as needed. Do not exceed 3 foliar applications. Can be applied up to 22 days prior to harvest.	2
Head Lettuce only (Do not use on leaf lettuce)	Cabbage Looper, Alfalfa Looper, Beet Armyworm, Corn Ear Worm and Tobacco Budworm	Apply every 5-10 days as needed. Do not make more than 10 applications per season. Can be applied up to 1 day prior to harvest.	2
Potatoes	Beet Armyworm, Colorado Potato Beetle, Potato Leafhopper, Potato Flea Beetle, Aster Leafhopper, Potato Aphid, Potato Tuberworm, Cabbage Looper, Cutworms, European Corn Borer, Potato Psyllid, Tarnished Plant Bug	Apply as needed. Do not apply more than 12 applications. Can be applied up to 7 days prior to harvest.	2
Peppers	Vegetable Leafminer, Cabbage Looper, Fleabeetle, Corn Earworm, Pepper Weevil, European Corn Borer	Apply as needed, but not more than 8 sprays per season. Can be applied up to 3 days prior to harvest.	2
Spinach	Beet Armyworm, Corn Earworm, Cabbage Looper, Cutworms, European Corn Borer, Green Cloverworm and Leafhoppers	Apply for uniform coverage when needed but not more than 7 applications per season. Can be applied up to 7 days prior to harvest.	1
Sweet Corn	Corn Earworm, European Corn Borer, Fall Armyworm, Southern Armyworm	Apply every 5 days and when needed but not more than 6 applications per season. Can be applied up to 1 day prior to harvest.	2
Tomatoes (Do not apply on cherry tomatoes and varieties yielding tomatoes less than one inch in diameter.)	Beet and Southern Armyworm, Tomato Pinworm, Tomato Fruitworm, Horn Worms, Granulate Cutworms, Colorado Potato Beetle, Cabbage Looper	Apply for uniform coverage when needed but not more than 6 applications per season. Can be applied up to date of harvest.	2

TREE FRUIT AND NUT CROPS GROWN AROUND THE HOME

Apply finished spray to trees to point of run-off.

Trees (Fruit or Nut)	Target Pest(s)	Recommended Permethrin 10% Dilution Use Rate Remarks	Finished Spray tsp/gal
Almonds	Navel Orange Worm, Peach Twig Borer	Apply when insects appear. Do not make more than 2 applications during hull split and 5 applications per season. Can be applied up to 7 days prior to harvest.	3
Apples	Plum Curculio, Redbanded Leafroller, Rosyapple Aphid, Spotted Tentiform Leafminer, Tarnished Plant Bug, White Apple Leafhopper, Oblique-banded Leafroller, Green Fruitworm	Apply when insects appear. Repeat as required to maintain control. Do not make more than 3 applications per season. Do not apply after petal fall.	3
Peaches	Lesser Peachtree Borer, Peach Twig Borer, Plum Curculio, Tarnished Plant Bug, Fruit Worm, Oriental Fruit Moth	Apply when insects appear. Do not apply within 7 days of Green harvest. Do not make more than 8 applications per season.	3
Pears	Pear Psylla	Apply during the dormant through delayed dormant growth period only. Add if desired, 8 oz. of spray oil to each gallon of Permethrin 10%. Do not make more than 2 applications per season.	3
(summer)	Pear Psylla, Green Fruitworm, and Codling Moth	Apply when needed. Do not apply more than 3 applications per season. Can be applied up to 14 days prior to harvest.	3

PEST CONTROL USE OUTDOOR AROUND THE HOME

As a surface spray: For use in dog runs to control Fleas and Ticks (adults and larvae): Thoroughly spray infested areas, pet beds, resting quarters, nearby cracks and crevices and localized areas of floor and floor covering. Fresh bedding should be placed in animal quarters following treatment.

For use on exterior walls, screens, door frames, beams, light cords, and similar resting places to control Mosquitoes, Wasps, Gnats, and Skippers: Mix 6.5 oz. per gallon of water. Treat surfaces using coarse wet spray. Applications are limited to spot or crack-and crevice treatments only.

DOGS AND LIVESTOCK

READ ENTIRE LABEL BEFORE EACH USE. FOR PET USE: USE ONLY ON DOGS

Do not use on dogs under twelve (12) weeks old. Consult a veterinarian before using this product on medicated, debilitated, aged, pregnant or nursing animals. Sensitivities may occur after using any pesticide product for pets. If signs of sensitivity occur, bathe your pet with mild soap and rinse with large amounts of water. If signs continue, consult a veterinarian immediately.

On Dogs to control Fleas, and Ticks:

AS A SPRAY - Mix 3.25 - 6.5 oz. per gallon of water. Start spraying diluted product at the tail moving the dispenser rapidly and making sure that the animal's entire body is covered, including the legs and underbody. While spraying, fluff the hair so that the spray wets thoroughly. Do not spray into eyes and face. Avoid contact with genitalia. Repeat application every two weeks if necessary.

AS A DIP - Mix 3.25 - 5.0 oz. per gallon of water. Wet the dog with water before treatment. Sponge, dip or pour diluted product on the dog until its fur and skin are thoroughly wet, making sure that the animal's entire body is treated, including the legs and underbody. Repeat application every two weeks if necessary. Do not treat the dog's face.

Livestock Spray (Cattle, Sheep, Goats, Swine, Horses and Poultry)

To control Horn flies, House flies, Mosquitoes, and Gnats: Mix 1.3 oz. per gallon of water. Apply to wet the hair thoroughly, with particular attention to topline, underline, flanks, withers and other infested areas. Repeat treatment at intervals of 5 to 12 days for small insect populations or as needed when flies are emerging in large numbers.

To control Stable Flies, Horse Flies, and Deer Flies: Mix 1.3 oz. per gallon of water. Apply a quart per adult animal to wet the hair thoroughly with particular attention to the legs, flanks, barrel, topline and other body areas commonly attacked by these flies. Repeat treatment as needed.

To control Face Flies: Mix 1.3 oz. per gallon of water. Apply using spray which produces large wet droplets. Apply to the face of the animal in the morning before release to pasture. Apply sufficiently to wet the face but not more than 1.5 ounces per animal. Repeat daily as needed.

To control Lice (including poultry lice), Northern Fowl Mites, and Mange: Mix 1.3 oz. per gallon of water. Spray roosts, walls and nests or cages thoroughly. This should be followed by spraying over the birds with a fine mist. For swine, thoroughly soak animal, including ears. Retreat at 14 days for Mange. Treat walls and bedding.

To control Bedbugs and Mites in poultry houses: Mix 1.3 oz. per gallon of water. Spray crevices of roost poles cracks in walls and cracks in nests where the bedbugs and mites hide.

To control Sheep "tick" or ked: Mix 1.3 oz. per gallon of water. Thoroughly wet all portions of the body by dipping or by spraying with sufficient pressure and with a nozzle adjustment to give penetration of wool. Treat at a rate sufficient to wet the animal.

To control Fleas on Livestock (to kill and to protect against reinfestation): Mix 6.5 oz. per gallon of water. Wet the animal by dipping or spraying.

As a Space Spray:

Livestock Premises: (barns, Poultry Houses, Swine and Livestock housing): To control Flies, Mosquitoes and Gnats: Mix 6.5 oz. per gallon of water. Remove animals prior to treatment. Apply as a fog or fine mist, directing the spray toward the ceiling and upper corners until the area is filled with mist, using about 2 ounces per 1000 cubic feet of space. For best results, close doors and windows before spraying and keep them closed for ten to fifteen minutes, vacate the treated area and ventilate before reoccupying. Repeat treatment as necessary.

STORAGE & DISPOSAL

Storage: Store in an area away from children and pets.

Disposal: If Empty: Do not reuse empty container. Put in trash or offer for recycling if available. **If partly filled:** Call you local solid waste agency or 1-800-CLEANUP for disposal instructions Never place unused product down any indoor or outdoor drain..

IMPORTANT: READ BEFORE USE

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

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, because of manner of use and other factors beyond Southern Agricultural Insecticide's control, it is impossible for to eliminate all risks associated with the use of this product. Buyer assumes all risk of use, storage and handling not in strict accordance with the directions and precautions given herewith.

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