

DIRECTIONS FOR USE

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

GENERAL PRECAUTIONS AND RESTRICTIONS

Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in ornamental gardens or parks, or on golf courses or lawns and grounds.

SHAKE WELL BEFORE USING

Do not apply this product in a way that will contact workers or other persons, either directly or through drift; only protected handlers may be in the area during application. Do not breathe dusts, vapors, or spray mist. Except when applying to live stock, do not enter or allow others to enter until sprays have dried. When applied as a space spray or fog, do not enter or allow others to enter until vapors, mists, and aerosols have dispersed, and the treated area has been thoroughly ventilated.

Do not apply when food is present. Do not use in food areas of food handling establishments, restaurants, or other areas where food is commercially prepared or processed. Do not use in serving areas while food is exposed or facility is in operation. Serving areas are areas where prepared foods are served, such as dining rooms, but excluding areas where foods may be prepared or held. All food processing surfaces and utensils should be covered during treatment or thoroughly washed before use. Exposed food should be covered or removed.

Application is prohibited directly into sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur. Do not allow the product to enter any drain during or after application.

INDOOR APPLICATION

Nonfood/feed areas are areas such as garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage (after canning or bottling).

Vacate treated areas and ventilate before reoccupying. For maximum effectiveness, a combination of spot, surface treatment and fogging is recommended.

Do not apply to classrooms while in use.

SURFACE SPRAYING: TO CONTROL COCKROACHES, WATERBUGS, PALMETTO BUGS, SCORPIONS, MILLIPEDES, CENTIPEDES, SOWBUGS, MILLEGGUS, ANTS, SILVERFISH, FIREBRATS, SPIDERS, CRICKETS, CLOVER MITES, CHEESE MITES, GRANARY WEEVILS, RICE WEEVILS, CONFUSED FLOUR BEETLES, RUST RED FLOUR BEETLES, DRUGSTORE BEETLES, MEAL WORMS, GRAIN MITES AND CADELLES: Direct the spray into hiding places, cracks and crevices, and behind shelves and drawers. For silverfish, spray bookcases. For ants, spray trails, nests and points of entry.

TO CONTROL CARPET BEETLES: Spray edges of carpeting and under carpeting and rugs. Make localized application to floor and baseboards. Spray directly into cracks, crevices and infested areas of shelving.

TO CONTROL BEDBUGS: Spray mattresses lightly, particularly around tufts and seams. Take beds apart and spray in all joints. Treat baseboards, moldings and floors. Allow articles to dry thoroughly before use.

TO CONTROL FLEAS (ADULTS AND LARVAE) AND TICKS, INCLUDING TICKS WHICH MAY CARRY LYME DISEASE (ADULTS AND LARVAE): Thoroughly spray infested areas, pet beds, resting quarters, nearby cracks and crevices, along and behind baseboards, moldings, window and door frames, and entire areas of floor and floor covering. Fresh bedding should be placed in animal quarters following treatment. Allow to dry thoroughly before allowing dogs to contact treated areas.

IF REINFESTATION OCCURS REPEAT TREATMENT BUT DO NOT REPEAT MORE FREQUENTLY THAN EVERY 14 DAYS.

TO CONTROL CLOTHES MOTHS: Remove any infested articles from storage, brush thoroughly, and air for several hours in sunlight, if possible. Apply spray liberally to empty chests, closets, bureaus and other storages directing the spray into cracks, joints and crevices. After airing, infested articles may be treated lightly, keeping nozzle at least three feet from fabric to avoid staining.

TO KILL LICE AND LOUSE EGGS: Spray in an inconspicuous area to test for possible staining or discoloration. Inspect again after drying, then proceed to spray entire area to be treated. Spray from a distance of 8 to 10 inches. Treat only those garments and parts of bedding, including mattresses and furniture that cannot be either laundered or dry cleaned. Allow all treated articles to dry thoroughly before use.

SPACE SPRAYING: Close doors and windows and shut off ventilating systems. Apply with a good machine adjusted to deliver a fine mist or fog. For rapid control of *House Flies*, *Fruit Flies*, *Gnats*, *Mosquitoes*, *Skipper Flies*, *Wasps*, *Hornets*, *Bees*, *Black Flies*, *Angoumois Grain Moths*, *Mediterranean Flour Moths*, *Indian Meal Moths* and *Tobacco Moths*: Direct spray at an upward angle, distributing it uniformly throughout the entire area at a rate of 1 ounce per 1000 cubic feet of space. Keep area closed for 2 hours. Ventilate before reoccupying.

FOGGING: To kill exposed or accessible stages of the above named crawling insects, use a rate of 1 gallon to 20,000 to 40,000 cubic feet of space. Contact insects directly when possible. Keep area closed for 2 hours. Ventilate before reoccupying.

ON LIVESTOCK: To protect cattle (beef and dairy), goats, sheep, hogs and horses from *Horn Flies*, *Face Flies*, *House Flies*, *Mosquitoes* and *Gnats*: Apply a light mist sufficient to wet the surface of the hair. For face flies, spray face and head, but do not spray into eyes.

TO CONTROL STABLE FLIES, HORSE FLIES AND DEER FLIES: Apply at a rate of 2 ounces per adult animal, sufficient to wet the hair thoroughly. Repeat treatment daily or at intervals necessary to give continued protection.

TO CONTROL BLOOD SUCKING LICE: Apply to the infested areas of the animal, using a stiff brush to get the spray to the base of the hair. Repeat every 3 weeks if required.

TO CONTROL POULTRY LICE: Spray roosts, walls and nests or cages thoroughly. This should be followed by spraying over the birds with a fine mist.

TO CONTROL BEDBUGS AND MITES IN POULTRY HOUSES: Spray crevices of roost poles, cracks in walls, and cracks in nests where the bedbugs and mites hide.

FIRST AID:	
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none">• 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 IN EYES	<ul style="list-style-type: none">• 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.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-222-1222 for emergency medical treatment information.	

ENVIRONMENTAL HAZARDS for TERRESTRIAL APPLICATIONS
This pesticide is extremely toxic to aquatic organisms, including fish and invertebrates. 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.

This pesticide 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.

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 or rinse water that cannot be used according to label instructions must be disposed of at or by an approved waste disposal facility. **Container Disposal** - Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinse into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.



BUG BLASTER DUAL INSECTICIDE

- INTENDED FOR COMMERCIAL USE ONLY • A READY-TO-USE STABLE EMULSION INSECTICIDE
- FOR USE OUTDOORS AND NON-FOOD AREAS OF FOOD/FEED PROCESSING ESTABLISHMENTS, KENNELS, COMMERCIAL BUILDINGS, WAREHOUSES, THEATERS, OFFICE BUILDINGS, SCHOOLS, MOTELS, AND HOTELS.
- FOR CONTROL OF FLEAS, BROWN DOG TICKS AND LICE ON PREMISES • FOR CONTROL OF TICKS WHICH MAY CAUSE LYME DISEASE ON PREMISES • FOR CONTROL OF PESTS ON LIVESTOCK AND LIVESTOCK PREMISES • PROVIDES 60-DAY (Two Months) CONTROL OF COCKROACHES • PROVIDES 60-DAY (Two Months) CONTROL OF FLEAS • PROVIDES 60-DAY (Two Months) CONTROL OF STORED PRODUCT PESTS

Insecticida residual PRECAUCION AL CONSUMIDOR: Si usted no lee ingles no use este producto hasta que la etiqueta le haya sido explicada ampliamente. (TO THE USER: If you cannot read English, do not use this product until the label has been fully explained to you.)

ACTIVE INGREDIENT:

*Permethrin..... 0.50%
OTHER INGREDIENTS: 99.50%
100.00%

*(3-phenoxyphenyl) methyl (+/-) cis/trans 3-(2,2-dichloroethenyl) 2,2-dimethylcyclopropanecarboxylate. Cis/trans ratio: min. 35% (+/-) cis and max. 65% (+/-) trans.

KEEP OUT OF REACH OF CHILDREN CAUTION

PRECAUTION STATEMENTS
Hazards To Humans & Domestic Animals

CAUTION: Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove contaminated clothing and wash before reuse.

Net Contents: 5 Gallons (18.9 L)

Sold By

M-31

Mid-American Research Chemical Corp.
P. O. Box 927, Columbus, NE 68602-0927 | 800-228-8508

OUTDOOR APPLICATION

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.

TO CONTROL TICKS, INCLUDING TICKS WHICH MAY CARRY LYME DISEASE (PERIMETER TREATMENT): Use as a residual treatment to control Ticks including the *Deer Tick (Ixodes dammini)*, *Lone Star Tick (Amblyomma americanum)*, *Brown Dog Tick (Rhipicephalus sanguineus)*, *American Dog Tick (Dermacentor variabilis)* and *Western Black-legged Tick (Ixodes pacificus)*.

For each area listed below, apply until surface is wet (approximately 1 gal./750-1000 ft²).

Treat around windows and doors, porches, screens, eaves, patios, garages, under stairways and in crawl spaces where these pests may enter.

Treat a band of vegetation and leaf litter 6 to 10 feet wide around the outside of buildings to help control ticks occurring there.

To help control ticks in outdoor activity areas, treat a band of vegetation and leaf litter 6-10 feet wide and adjacent to activity areas, especially where dense vegetation occurs.

FOR CONTROL OF GARDEN INSECTS: For use on roses, dahlias, asters and other ornamentals to kill *Japanese Beetles* hit by spray as well as *Whiteflies*, *Aphids*, *Exposed Thrips*, *Spiders*, *Red Mites* and *Leafminers*. May be used on plants as a multipurpose spray in small gardens and spot treatments of incipient insect infestations to prevent spreading in large garden areas.

May also be used on other plants such as African violets, asters, azaleas, begonias, camelias, carnations, chrysanthemums, dahlias, delphiniums, dogwoods, English ivy, euonymus, fuschia, geraniums, crassula, grape vines, Kentia palms, laurels, marginals, rhododendrons, roses, rubber plants, snapdragons, stocks, wandering Jews and zinnias.

EFFECTIVE WHEN USED AS DIRECTED AGAINST WHITEFLIES, APHIDS, SPIDER AND RED MITES, EXPOSED THIRPS, LACE BUGS, JAPANESE BEETLES, PAVEMENT ANTS, CLOVER MITES AND ARMYWORMS: When spraying plants, do not operate closer than 18 inches. Use sweeping motion. Be cautious about wetting tender foliage, young plants and new growth. Do not spray plants when temperatures exceed 90°F. Contact insects directly whenever possible. Repeat treatment as infestations occur.

SEE SEPARATE DIRECTIONS AND PRECAUTIONS FOR MOSQUITO CONTROL APPLICATIONS.

ADULT MOSQUITO CONTROL

For ground-based applications only. Do not use for aerial applications.

For use by federal, state, tribal, or local government officials responsible for public health or vector control, or by persons certified in the appropriate category or otherwise authorized by the state or tribal level pesticide regulatory agency to perform adult mosquito control applications, or by persons under their direct supervision.

DIRECTIONS FOR USE

Do not retreat site more than once in 3 days. Do not exceed 25 applications at 0.007 pounds of permethrin per acre or 0.18 pounds of permethrin per acre in any given season. More frequent treatments may be made to prevent or control a threat to public and/or animal health determined by a state, tribal or local health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes or the occurrence of mosquito-borne diseases in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort.

Apply when wind speed is greater than 1 mph. Apply as a fine mist to thoroughly treat the entire area. Treat shrubbery or vegetation where mosquitoes may rest. Apply at a rate of 2.5 pints per acre (0.9 ounce per 1000 square feet). Using truck-mounted conventional misting equipment such as Rotamist models 51C, 91 or 100 HT traveling at 5 mph to treat a 300 foot swath, calibrate equipment to deliver 0.95 gallon per minute.

Spray equipment must be adjusted so that the volume median diameter is less than 30 microns (Dv 0.5 < 30 um) and that 90% of the spray is contained in droplets smaller than 50 microns (Dv 0.9 < 50 um). Directions from the equipment manufacturer or vendor, pesticide registrant or a test facility using a laser-based measurement instrument must be used to adjust equipment to produce acceptable droplet size spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rate(s) are properly calibrated.

Only apply this product if the wind direction favors on-target deposition.

Do not apply when the wind velocity exceeds 15 mph.

Do not make ground applications into temperature inversions.

Inversions are characterized by stable air and increasing temperatures with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface. Use only medium or coarser spray nozzles for ground application according to ASAE (S572) definition for standard nozzles. In conditions of low humidity and high temperatures, applicators should use a coarser droplet size. Wind speed must be measured adjacent to the application site on the upwind side, immediately prior to application.

ENVIRONMENTAL HAZARDS for WIDE AREA MOSQUITO ADULTICIDE APPLICATIONS

This pesticide is extremely toxic to aquatic organisms, including fish and invertebrates. Runoff from treated areas or deposition of spray droplets into a body of water may be hazardous to fish and aquatic invertebrates.

When applying as a wide area mosquito adulticide, before making the first application in a season, it is advisable to consult with the state or tribal agency with primary responsibility for pesticide regulation to determine if other regulatory requirements exist.

Do not apply over bodies of water (lakes, rivers, permanent streams, natural ponds, commercial fish ponds, swamps, marshes or estuaries), except when necessary to target areas where adult mosquitoes are present, and weather conditions will facilitate movement of applied material away from the water in order to minimize incidental deposition into the water body.

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

DISCLAIMER OF WARRANTIES: Seller warrants that this product corresponds to all claims and descriptions on the label thereof and is reasonably fit for use for any purpose stated on such label only when used in accordance with directions under normal use conditions. Seller makes no warranties of merchantability or fitness for a particular purpose nor any other express or implied warranty except as stated above.