

PERMANONE® MULTI-PURPOSE 10% E.C.

COMMERCIAL

- Broad Spectrum Multi-Use Insecticide
- Quick Knockdown
- For Use Outdoors and in Kennels and in Non-Food Areas of Commercial Buildings, Institutions, Warehouses, Theatres, Office Buildings, Schools, Motels, Hotels, Restaurants and Food/Feed Processing Establishments
- For Control of Fleas, Brown Dog Ticks on Premises
- For Use for Aircraft Disinsection

GUARANTEE:

*Permethrin: (3-phenoxyphenyl)methyl (+/-) cis/trans 3-(2,2-dichloroethenyl) 2,2-dimethyl cyclopropane-carboxylate.....10.0%

*Cis/trans ratio: Max. 65% (+/-) trans and min. 35% (+/-)

READ THE LABEL BEFORE USING

CAUTION POISON

DANGER SKIN IRRITANT

KEEP OUT OF REACH OF CHILDREN

REGISTRATION NO. 26476 PEST CONTROL PRODUCTS ACT

NET CONTENTS:

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 Telephone: 1-888-283- 6847

*Bayer Environmental Science
 A Business Group of Bayer CropScience

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.

FIRST AID

Take container, label or product name and pest control product registration number with you when seeking medical attention.

IF SWALLOWED: Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

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

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

TOXICOLOGICAL INFORMATION: Do not administer or instill milk, cream or other substances containing vegetable or animal fats which enhance absorption of lipophilic substances.

Do not induce vomiting unless under a physician's care. This product contains petroleum distillate. Vomiting may cause aspiration pneumonia.

PRECAUTIONS

Harmful if inhaled. Causes moderate eye injury and skin irritation. Do not get on skin or clothing. Avoid breathing vapor or spray mist and contact with eyes.

Wear chemical resistant gloves, goggles or a face shield, long pants and a long-sleeve shirt during the mixing, loading, application, clean up and repair.

WEAR A NIOSH APPROVED RESPIRATOR WHEN APPLYING SPACE SPRAY MIST/FOG AND FOR OVERHEAD APPLICATIONS.

Remove contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling.

Avoid contamination of food, feed, cooking utensils or drinking water.

For indoor applications, treated areas should be vacated by bystanders during applications. For space spray applications, **DO NOT** allow bystanders to reenter indoor treated areas until at least 4 hours after application. For areas treated by spot or crack and crevice applications only, **DO NOT** allow bystanders to reenter treated areas until at least 2 hours after application or until residues are dry.

For outdoor applications, keep bystanders away from treated areas until residues are dry.

This product is highly toxic to fish and aquatic invertebrates. Do not apply to lakes, rivers, streams, ponds, tidal marshes and estuaries. Do not apply where runoff is likely to occur. Do not apply when wind speed exceeds 16 km/hr. Do not contaminate the above mentioned aquatic areas through spray drift, cleaning of equipment or disposal of waste. Shrimp and crab may be killed if application rates recommended on this label are exceeded. Use with caution where these are important resources. Not to be used within 5 meters of any water bodies.

This pesticide is highly toxic to bees exposed to direct treatment or to residues remaining on the treated area. Do not apply this product or allow drift when bees are actively visiting the treatment area. Applications should be timed to provide the maximum possible interval between treatment and the next period of bee activity. Do not use or store near heat or open flame. Do not use this product in or on electrical equipment due to the possibility of shock hazard.

DIRECTIONS FOR USE

To prepare dilutions, the concentrate should first be stirred or agitated well. Add the required amount of concentrate, as specified below, to water or oil and blend thoroughly. Do not hold dilutions for more than 24 hours.

INDOOR USE AREAS

For use in residential and non-food/non-feed areas of nonresidential buildings and structures including Aircraft, Bakeries, Beverage Plants, Canneries, Flour Mills, Food Processing Plants, Grain Elevators, Granaries, Homes, Hospitals, Hotels, Industrial Installations, Kennels, Meat Packaging Plants, Motels, Office Buildings, Railroad Cars, Restaurants, Schools, Ship's Holds, Supermarkets, Truck Trailers and Warehouses.

Non-Food/Non-Feed areas include (but are not limited to) garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage (after canning and bottling).

Do not apply this product in aircraft while occupied by passengers

Do not use in food/feed preparation or processing areas of food/feed handling establishments, restaurants or other areas where food/feed is commercially prepared or processed. Do not use in serving areas while food is exposed or facility is in operation. Servicing areas are areas where prepared food is served such as dining rooms but excluding areas where foods may be prepared or held.

Do not apply to classrooms when in use. Do not apply this product in patient rooms or in any rooms when occupied by the elderly or infirm.

In the home, all food processing surfaces, dishes and utensils should be covered or removed during treatment and/or thoroughly washed before use with soap and potable water after at least 1 hour drying time. Exposed food/feed should be covered or removed. Remove pets and birds and cover fish aquaria before spraying. Do not allow pets to contact treated areas until surfaces are dry.

For indoor applications, treated areas should be vacated by bystanders during applications. For space spray applications, DO NOT allow bystanders to reenter indoor treated areas until at least 4 hours after application. For areas treated by spot or crack and crevice applications only, DO NOT allow bystanders to reenter treated areas until at least 2 hours after application or until residues are dry.

SPOT AND CRACK AND CREVICE APPLICATIONS:

PEST CONTROLLED	DILUTION	APPLICATION
Cockroaches, Ants, Silverfish, Firebrats, Spiders, Crickets, Sowbugs, Red Rust Flour Beetles, Cigarette Beetles, Mealworms	For initial clean up of severe infestations, dilute 1 part Permanone Multi-Purpose 10% E.C. to 10 parts water (100 ml per 1 liter of water).	Use a good sprayer adjusted to deliver a coarse wet spray. Direct the spray into hiding places, cracks and crevices, under pallets, around containers of stored foods, around the base of machinery and behind shelves and drawers. Spray bookcases for silverfish. Spray ant trails, nest and points of entry. Apply 1 liter of diluted material per 18.5 square meter of surface (equivalent to approximately 0.5 g Permethrin per square meter). Spiders need to be directly sprayed to be killed.
Cockroaches, Ants, Silverfish, Firebrats, Spiders, Crickets, Sowbugs, Red Rust Flour Beetles, Cigarette Beetles, Mealworms	For normal infestations, dilute 1 to 2 parts Permanone Multi-Purpose 10% E.C. to 40 parts water (25 to 50 ml per 1 liter of water).	Use a good sprayer adjusted to deliver a coarse wet spray. Direct the spray into hiding places, cracks and crevices, under pallets, around containers of stored foods, around the base of machinery and behind shelves and drawers. Spray bookcases for silverfish. Spray ant trails, nest and points of entry. Apply 1 liter of diluted material per 18.5 square meters of surface (equivalent to approximately 0.5 g Permethrin per square meter). Spiders need to be directly sprayed to be killed.
Carpet Beetles	Dilute 1 part Permanone Multi-Purpose 10% E.C. to 20 parts water (50 ml per 1 liter of water).	Spray edges of carpeting and under carpeting and rugs for approximately 10 seconds duration. Make localized application to floor and baseboards. Spray directly into cracks, closets and infested area of shelving. Apply 1 liter of diluted material per 18.5 square meters of surface (equivalent to approximately 0.26 g Permethrin per square meter). Repeat treatment as necessary.

PEST CONTROLLED	DILUTION	APPLICATION
Fleas and Brown Dog Ticks (adults and larvae)	Dilute 1 to 2 parts Permanone Multi-Purpose 10% E.C. to 40 parts water (25-50 ml. per 1 liter of water).	Thoroughly spray infested areas, pet beds, resting quarters, nearby cracks and crevices, along and behind baseboards, moldings, window and doorframes and localized areas of floor and floor covering. Fresh bedding should be placed in animal quarters following treatment. Apply 1 liter of diluted material per 18.5 square meters of surface (equivalent to approximately 0.13 to 0.26 g Permethrin per square meter).

INDOOR SPACE SPRAYS:

PEST CONTROLLED	DILUTION	APPLICATION
House Flies, Mosquitoes, Indian meal moths, Aids in reducing Adult Fruit Flies	Dilute 1 part Permanone Multi-Purpose 10% E.C. to 20 parts oil or water (50 ml. Per 1 liter of water).	Apply with mechanical or compressed air equipment (nonthermal) adjusted to deliver a fine mist. Close doors and windows and shut off ventilating systems. When using an oil dilution for space spraying, extinguish all flames and pilot lights when applying. For rapid control of pests listed, direct spray at an upward angle, distributing it uniformly though the entire area at a rate of 1 ml. Per 1 cubic meter of space (equivalent to approximately 4.8 mg Permethrin per 1 cubic meter). Keep area closed for at least 10 minutes. Treated areas should be vacated by bystanders during application. DO NOT allow bystanders to reenter treated areas until at least 4 hours after application. In addition, treated area should be ventilated for 30 minutes before reoccupying.
For Use in barns, milking parlors, milk rooms, dairies and poultry houses.		Do not apply directly to animals or poultry. In dairies, apply only when not in operation. Thoroughly clean all milk utensils before resuming operations.
House Flies, Stable Flies, Mosquitoes	Dilute 1 part Permanone Multi-Purpose 10% E.C. to 20 parts water (50 ml. to 1 liter of water)	Apply as a fog or fine mist, directing the spray toward the ceiling and upper corners until the area is filled with mist, using 2 ml. of diluted material per 1 cubic meter of space (equivalent to approximately 9.6 mg Permethrin per 1 cubic meter). For best results, close doors and windows before spraying and keep closed for ten to fifteen minutes. Vacate the treated area and ventilate before reoccupying. Repeat treatment as necessary.

AIRCRAFT DISINSECTION

Interior surfaces - prepare the aircraft by opening, clearing and cleaning all lockers, cupboards, storage units etc. and drawing all curtains and window blinds. Remove carpet covers if present.

Spray all surfaces including ceilings, walls, lockers, curtains, toilets, galleys and wall areas behind curtains. Spray both sides of doors and locker lids. At the end of the operation re-spray the carpets.

(NOTES: Do not remove permanently stored items such as loud hailers, first aid kits, oxygen bottles, fire extinguishers. **AVOID SPRAYING WINDOWS, INSTRUMENT PANELS, OVERHEAD CONTROL PANELS OR CIRCUIT BREAKER PANELS. REMOVABLE GALLEY COMPONENTS, SUCH AS FOOD TROLLEYS, WILL NOT REQUIRE TREATMENT.**)

Spray cargo compartment walls, ceilings and floors. Pay particular attention to sidewall and floor cavities.

After spraying is completed, air conditioning packs should be run for at least one hour to clear the air of the volatile components of the spray. Mirrors and some other surfaces may need to be cleaned of spray deposit. On other surfaces, the treatment should be repeated so as to replenish the insecticide film whenever it is wiped off.

Repeat treatment as necessary. Areas receiving substantial cleaning will require re-treatment. Re-treatment is recommended if deep-cleaning of aircraft interiors occurs.

PEST CONTROLLED	DILUTION	APPLICATION
Cockroaches, Ants, Silverfish, Firebrats, Spiders, Crickets, Sowbugs, Red Rust Flour Beetles, Cigarette Beetles, Mealworms, Mosquitos, Flies	Dilute 1 part Permanone Multi-Purpose 10% E.C. to 4 parts water (250 mL per 1 liter of water) (2% emulsion)	<p><u>For Interiors:</u> The required dosage rate is 0.2 g of permethrin per square meter. Apply the 2% emulsion at a rate of 10 ml per square meter. Where possible, adjust spray equipment to deliver 10 ml per second to cover 1 m² per second. Spray an even pattern of close droplets on all surfaces without producing run-off.</p> <p><u>For Cargo Holds:</u> The required dosage rate is 0.5 g of permethrin per square meter. Apply the 2% emulsion at a rate of 25 ml per square meter. Where possible, adjust spray equipment to deliver 25 ml per second to cover 1 m² per second. Spray an even pattern of close droplets on all surfaces without producing run-off.</p>

OUTDOOR USE AREAS

To control gypsy moth caterpillars and adults and tent caterpillars on trees and shrubs, roses and in flower gardens dilute 1 to 2 parts Permanone Multi-Purpose 10% E.C. to 40 parts of water (25-50 ml per 1 liter of water). Apply to ensure thorough coverage of upper and lower surfaces.

On trees and shrubs, treat as insects emerge. Treat leaves, branches and tree trunks evenly, making certain to penetrate dense foliage. Repeat application every 7 days or as necessary for control. On roses and in flower gardens, treat plants as soon as insects appear. Spray plants making certain to penetrate dense foliage. Repeat application every 7 days or as necessary for control.

As an aid in reducing mosquito annoyance apply as a barrier spray along the perimeter of residential yards, public facilities, paths and recreational areas. Permanone Multi-Purpose 10% E.C. is not to be used for broadcast application over large areas and should only be used for perimeter treatment.

Dilute 1 part Permanone Multi-Purpose 10% E.C. to 1 part of suitable diluent (oil or water) or at proportional dilutions calculated on the basis of applicator speed and swath width to achieve the target dose of 520 ml. of diluted material per 0.4 hectare (equivalent to approximately 45.36 grams per 0.4 hectare). Apply when walking at a speed of approximately 3 km. per hour or a swath of 15 meters treating approximately 0.08 hectare/minute.

DISPOSAL

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instruction for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, please note that Permanone Multi-purpose 10% EC contains a Group 3 insecticide. Any insect population may contain individuals naturally resistant to Permanone Multi-purpose 10% EC and other Group 3 insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but are specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed. To delay insecticide resistance:

- Where possible, rotate the use of Permanone Multi-purpose 10% EC or other Group 3 insecticides with different groups that control the same pests in the field.
- Use tank mixtures with insecticides from a different group when such use is permitted.
- Insecticide use should be based on an IPM program that includes scouting, record keeping, and considers cultural, biological and other chemical control practices.
- Monitor treated pest populations for resistance development.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance contact Bayer CropScience Inc. at 1-888-283-6847 or via the internet at www.bayercropscience.ca.

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *PEST CONTROL PRODUCTS ACT* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

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