



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

December 6, 2023

Noelle Sanfilippo
Regulatory Affairs Specialist
Central Garden & Pet Company
1501 East Woodfield Road, 200W
Schaumburg, Illinois 60173

Subject: Registration Review Label Mitigation for Permethrin
Product Name: Prentox Perm-X 1E
EPA Registration Number: 89459-37
Application Date: 12/15/2020
Decision Number: 568808

Dear Noelle Sanfilippo:

The Agency, in accordance with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the Permethrin Interim Decision and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide, Fungicide, and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

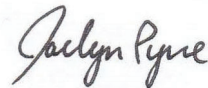
A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 12 months from the date of this letter. After 12 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently

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approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

If you have any questions about this letter, please contact Carolyn Smith by phone at (202) 566-2273, or via email at smith.carolyn@epa.gov.

Sincerely,

A handwritten signature in black ink that reads "Jaclyn Pyne". The signature is written in a cursive style with a large initial "J".

Jaclyn Pyne
Team Leader
Risk Management & Implementation Branch III
Pesticide Re-evaluation Division
Office of Pesticide Programs

Enclosure

Front Panel



PERM-X™ 1E

ACTIVE INGREDIENT:

Permethrin* 13.3%

OTHER INGREDIENTS:** 86.7%

TOTAL 100.0%

Contains 1 lb/gal. (120g/l) of Permethrin Technical

**Cis/trans* Isomers ratio: min. 35% (±) *cis* and max. 65% (±) *trans*

**Contains petroleum distillate

PRECAUTIONAL CONSUMIDOR: si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicado ampliamente.

(TO THE USER: If you cannot read English, do not use this product until the label has been fully explained to you.)

**KEEP OUT OF REACH OF CHILDREN
WARNING**

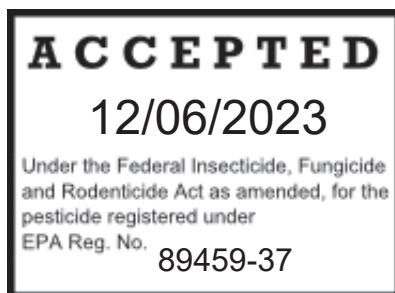
See inside of booklet for additional Precautionary Statements, First Aid Statements and Directions For Use.

EPA Reg. No. 89459-37

EPA Est. No.

Net Contents:

Lot #



FIRST AID	
If in eyes	<ul style="list-style-type: none"> • Hold eyes 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 eyes. • Call a poison control center for treatment advice.
If swallowed	<ul style="list-style-type: none"> • Immediately call a poison control center or doctor. • Do not induce vomiting unless told to do so by a poison control center or a doctor. • Do not give any liquid to the person. • Do not give anything by mouth to an unconscious person.
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may contact 1-800-222-1222 for emergency medical treatment information. You may also contact the National Pesticide Telecommunication Network at 1-800-858-7378 for information including health concerns, medical emergencies or pesticide incidents.</p>	
<p>NOTE TO PHYSICIAN: Contains petroleum distillate – vomiting may cause aspiration pneumonia. This product is caustic and probable mucosal damage may contraindicate gastric lavage. Do not administer whole milk, cream or other substances containing vegetable or animal fats which enhance absorption of lipophilic substances.</p>	

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

Warning: Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wear goggles or face shield. Wear long sleeved shirt and long pants, socks and shoes.

Personal Protective Equipment (PPE):

Applicators using ULV cold foggers or fog/mist generators in indoor spaces must wear:

- Coveralls over long-sleeved shirt and long pants;
- Chemical-resistant gloves made of barrier laminate or viton ≥ 14 mils
- Goggles or face shield;
- Chemical resistant footwear plus socks;
- A minimum of a NIOSH-approved particulate filtering facepiece respirator with any R or P filter; OR a NIOSH-approved elastomeric particulate respirator with any R or P filter; OR a NIOSH-approved powered air purifying respirator with HE filters;
- Chemical resistant headgear, if overhead exposure.

Applicators using ULV cold foggers and/or fog/mist generators in outdoor spaces must wear:

- Long-sleeved shirt and long pants;
- Shoes plus socks;
- Goggles or face shield; and
- Chemical resistant gloves made of barrier laminate or viton ≥ 14 mils

All other mixers, loaders, applicators and other handlers must wear:

- Long sleeve shirt and long pants;
- Shoes plus socks;
- Chemical resistant gloves made of barrier laminate or viton ≥ 14 mils
- Goggles or face shield; and
- Chemical-resistant apron for mixers/loaders, persons cleaning equipment and persons exposed to the concentrate and for handlers performing animal dip applications.

User Safety Requirements:

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

User Safety Recommendations:

- User should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product is extremely toxic to aquatic organisms, including fish and invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean water mark. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

Under some conditions, it may also have a potential for transport into surface water in runoff (primarily absorbed to suspended soil particles), for several months or more after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, and areas overlying extremely shallow groundwater, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-lying tile drainage systems that drain to surface waters.

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. Protect pollinating insects by following label directions intended to minimize drift and to reduce risk to these organisms.

{Containers larger than 5 gallons} Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

PHYSICAL AND CHEMICAL HAZARDS

Do not use or store near an open flame.

DIRECTIONS FOR USE

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

For both indoor and outdoor use.

RESISTANCE-MANAGEMENT

For resistance management, Prentox® Perm-X™ 1E contains a Group 3A insecticide. Any insect population may contain individuals naturally resistant to Prentox® Perm-X™ 1E and other Group 3A insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly. Appropriate resistance-management strategies should be followed. To delay insecticide resistance, take the following steps:

- Rotate the use of Prentox® Perm-X™ 1E or other Group 3A insecticides with different groups that control the same pests.
- Adopt an integrated pest management program for insecticide use that includes scouting, uses historical information related to pesticide use, record keeping and which considers cultural, biological and other chemical control practices.
- Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.
- Contact your local extension specialist 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 Central Garden & Pet at 1-800-248-7763.

Restrictions

- Apply this product only as specified on this label.
 - For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.
 - Except when applying to dogs, 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.
 - **Use in stationary foggers:** For 4 hours following applications, do not allow any person to reenter treated areas.
 - Use in handheld cold or thermal foggers is prohibited.
 - **Applications to Dogs:** Do not apply to dogs less than 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. **DO NOT USE ON CATS.**
 - Do not breathe vapors or spray mist.
 - Except when applying to dogs, only protected handlers may be in the area during application.
 - Do not apply as a broadcast or spot-treatment to indoor surfaces at residential sites, including nurseries, day care centers, schools, hospitals, and nursing homes.
 - Applications to indoor residential surfaces may only be applied at concentrations of no more than 0.5% permethrin.
 - 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.
 - In the home, all food processing surfaces and utensils should be covered during treatment or thoroughly washed before use.
 - Exposed food should be covered or removed.
 - Remove or cover fish bowls before application.
 - Do not apply this product in patient rooms or in any room occupied by the elderly or infirmed.
 - Do not apply to classrooms when in use.
 - Do not apply to institutions (including libraries, sports facilities, etc.) in the immediate area when occupants are present.
 - Not for use in commercial animal premise automatic misting systems.
 - When used in dairy barns or facilities: Close milk bulk tank lids to prevent contamination from spray and from dead or falling insects. Remove or cover milking utensils before application. Wash teats of animals before milking.
 - Do not apply directly to sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur except as directed by this label.
- Do not allow to enter indoor or outdoor drains unless labeled for drain treatments. *(No permita la entrada a desagües internos o externos a menos que el etiquetado indique que está permitido el uso del producto para tratamiento de desagües.)*



Follow proper disposal procedures on this label (*Siga las indicaciones del etiquetado para el desecho apropiado del producto.*)

- All outdoor spray applications, must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses: 1) Application to pervious surfaces, such as soil, lawns, turf, and other vegetation, around structures; 2) Perimeter band treatments of 7 feet wide or less from the base of a man-made structure to pervious surfaces (e.g., soil, mulch, or lawn); 3) Applications to underside of eaves, soffits, doors or windows permanently protected from rainfall by a covering, overhang, awning or other structure; 4) Applications around potential pest entry points into man-made structures such as doorways and windows, when limited to a band not to exceed one inch in width; 5) Applications to vertical surfaces (such as the side of a man-made structure) directly above impervious surfaces (e.g., driveways, sidewalks, etc.), up to 2 feet above ground level; 6) Applications to vertical surfaces above pervious surfaces such as soil, lawn, turf, mulch or other vegetation, only if the pervious surface does not drain into ditches, storm drains, gutters or surface waters.
- To treat insects harbored in voids and cracks-and-crevices, application must be made in such a manner to limit dripping and avoid runoff onto untreated structural surfaces and plants.
- Spot treatments must not exceed two square feet in size (for example, 2 ft by 1 ft or 4 ft by 0.5 ft).
- For soil or foliar applications, do not apply by ground within 25 feet of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries and commercial fish farm ponds.
- Do not spray the product into fish pools, ponds, streams or lakes. Do not apply directly to sewers or storm drains or to any area like a drain or 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.
- Do not apply directly to impervious horizontal surfaces such as sidewalks, driveways, and patios except as a spot or crack-and-crevice treatment.
- Do not apply or irrigate to the point of runoff.
- Do not water the treated area to the point of runoff.
- Do not make outdoor applications during rain. Avoid making application when rainfall is expected before the product has sufficient time to dry (minimum 4 hours).
- Rainfall within 24 hours after application may cause unintended runoff of pesticide application.
- For ornamental applications, do not apply when the wind speed is greater than 15 mph.
- Treat surfaces to ensure thorough coverage but avoid runoff.
- Not for use in outdoor residential misting systems.
- Do not apply directly to livestock.
- Do not use this product in or on electrical equipment due to the possibility of shock hazard.

NON-AGRICULTURAL USE REQUIREMENTS

- Except when applying to pets, do not enter or allow others to enter until sprays have dried.
- For space spray applications, do not enter or allow others to enter until vapors, mists, and aerosols have dispersed, and the treated area has been thoroughly ventilated.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE). The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the Restricted Entry Interval (REI) of 12 hours.

PPE required for early entry into treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- coveralls
- shoes plus socks
- chemical-resistant gloves made of barrier laminate, nitrile rubber \geq 14 mils, neoprene rubber \geq 14 mils, or viton \geq 14 mils

For use in non-food areas, indoors in hotels, motels, greenhouses, slathouses, seed houses, food handling establishments, packaging and processing plants, commercial, industrial, office, institutional and storage buildings, dairies, milk storage rooms, egg processing plants, supermarkets, restaurants, bottling plants, canneries, flour and feed mills, bakeries and outside premises of hotels, motels, homes, preschools, nurseries, day camps, greenhouses, slathouses, seed houses, food handling establishments, packaging and processing plants, commercial, industrial, office, institutional and storage buildings, dairies, milk storage rooms, egg processing plants, supermarkets, restaurants, bottling plants, canneries, flour and feed mills, bakeries, and hospitals. Also for use in nonfood areas such as garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage (after canning or bottling). Also for use in campers, mobile homes, buses, automobiles, trucks, boxcars. Also for use in dog kennels and horse stables. In horse stables, not for application if horses will be used for food.

NOTE TO PEST CONTROL OPERATORS: One gallon of finished spray is sufficient to treat 1,580 linear feet with a 6 inch spray band.

For contact and residual sprays, mix Perm-X 1E with water in the following manner:

FINISHED SPRAY	PERM-X 1E (fluid ounces)	WATER
0.25%	2 $\frac{2}{3}$	1 gallon
0.25%	$\frac{2}{3}$	1 quart
0.50%	5 $\frac{1}{2}$	1 gallon
0.50%	1 $\frac{1}{3}$	1 quart

For heavy infestation use the 0.50% dilution. For lighter infestations and for maintenance purposes, use the 0.25% solution.

PESTS INDOORS

For residual and contact control of cockroaches, waterbugs, crickets, silverfish (firebrats), clover mites, millipedes, centipedes, earwigs, sowbugs (pillbugs), spiders, brown dog ticks, lone star ticks, ants, fire ants, clothes moths, carpet beetles, fleas, boxelder bugs, scorpions, spider beetles, bed bugs, grasshoppers, house flies, mosquitoes, gnats, fruit flies, cluster flies, flying moths, confused flour beetles, saw-toothed grain beetles, shiny spider beetles, grain mites, red flour beetles, Angoumois grain moths, grain weevils, Indian meal moths, Mediterranean flour moths, lesser grain borers, cigarette beetles, drugstore beetles, chocolate moths: spray thoroughly into hiding places such as cracks, crevices, moist areas, openings around pipes and sinks, under refrigerators, baseboards and storage areas. Spray directly on insects where possible. Spray until the surface is just damp, but not to the point of runoff. Avoid excess application.

For Bed bugs: 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 bed bugs concentrating on tufts, folds and seams. Spray until the surface is just damp, but not to the point of runoff. Avoid excess application. Repeat treatment in 7 – 14 days if infestation continues. Allow all treated articles to thoroughly dry before use.

Grain Insects: To control confused flour beetles, sawtoothed grain beetles, spider beetles, shiny spider beetles, grain mites, red flour beetles, Angoumois grain moths, grain weevils, Indian meal moths, Mediterranean flour moths, lesser grain borers, cigarette beetles, drugstore beetles, chocolate moths, carpet beetles — remove infested grain, cereal or flour and destroy. Avoid contamination of other food and foodstuffs in the areas by removing before spraying. Spray directly on exposed stages and into cracks and crevices where grain insects may be hiding. Spray until the surface is just damp, but not to the point of runoff. Avoid excess application. 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 shelves to dry. Any utensils that are contacted with spray should be washed before using. Repeat treatment in 7 – 14 days if infestation continues.

Spiders: Spray directly on these pests and use repeated applications to the webbing and all cracks and crevices which harbor spiders. Spray until the surface is just damp, but not to the point of runoff. Avoid excess application.

Ants: To kill ants, spray trails, nests and points of entry within buildings and homes. Spray directly on ants where possible. Spray until the surface is just damp, but not to the point of runoff. Avoid excess application. Repeat treatment in 7 – 14 days if infestation continues.

Wasps, Hornets, Yellow Jackets, Bees: Application should be made in the late evening when insects are at rest. Spray liberally into hiding and breeding places, especially under attic rafters, contacting as many insects as possible. Spray until the surface is just damp, but not to the point of runoff. Avoid excess application. Repeat treatment in 7 – 14 days if infestation continues.

Fleas, Brown Dog and Lone Star Ticks on Premises: To prevent reinfestation, thoroughly spray the animals' bedding and other resting areas until the surface is slightly moist, contacting as many insects as possible. Treat the floor areas, cracks and crevices in the floor and along baseboards at the rate of 2 seconds per linear foot at a distance of 12 to 18 inches. Also spray the entire inside surface of dog homes. Spray until the surface is just damp, but not to the point of runoff. Avoid excess application.

House Flies, Mosquitoes, Cluster Flies, Gnats, Fruit Flies, Flying Moths: Close off all doors and windows. Point sprayer upward. Direct spray mist to all parts of the room, especially windows and other light sources which may attract these insects. Fill the room with mist, then leave the treated area. Spray until the surface is just damp, but not to the point of runoff. Avoid excess application. Keep the room closed for at least 15 minutes.

Carpet Beetles and Clothes Moths: To treat carpets — hold container 14-18 inches from carpet. Apply spray evenly, covering the entire surface until slightly moist. Spray underside of carpet when possible. Spray until the surface is just damp, but not to the point of runoff. Avoid excess application. Avoid wetting or soaking. **To Treat Garments, Blankets, Carpets and Other Fabrics Before Storage:** Dry clean or wash before treatment and after storage. Apply spray evenly, covering the material on both sides until slightly moist. Spray until the surface is just damp, but not to the point of runoff. Avoid excess application. For best results, place treated materials in plastic bags after drying and store in a dark place. Also spray floor and baseboards, closets, cracks, crevices, infested areas of shelving and/or wherever these insects are seen or suspected.

FOR USE ON ORNAMENTAL PLANTS, MIX PERM-X WITH WATER IN THE FOLLOWING MANNER

FINISHED SPRAY	PERM-X 1E	WATER
0.015%	1 teaspoon	1 gallon

Note: Do not use more Perm-X 1E than recommended, as this may cause some plant injury. Use this dilution unless other instructions are given.

CONTACT AND RESIDUAL SPRAY — Apply a finished spray of Perm-X 1E. Use sufficient spray to obtain full coverage of all foliage. Adjust spray volume used to plant size. Spray until the surface is just damp, but not to the point of runoff. Avoid excess application.

To protect plants in greenhouses and slathouses, and for indoor landscaping — Spray directly on insects to kill leafrollers, armyworms, cutworms, cabbage worms on chrysanthemums, fungus gnats on velvet plants. Spray as directed above. Spray until the surface is just damp, but not to the point of runoff. Avoid excess applications. Also see specific chrysanthemum directions below. Spray as directed above to control aphids, armyworms, corn earworms, fall cankerworms, inchworms, Japanese beetles, leafminers, leafrollers, mealybugs, scales, spider mites, spring cankerworms, exposed thrips, and whiteflies on the following plants: Ageratum, Ardista, Aster, Azalea, Baby's Breath, Begonia, Bird's-nest Fern, Bleeding Heart, Carnation, Chrysanthemum, Coleus, Crown of Thorns, Cockscomb, Cyclamen, Dracaena, Dumbcane, English Ivy, Fuchsia, Gladiolus, Grape Ivy, Hypoestes, Ivy, Juniper, Lily, Marigold, Orchid, Palm, Pansy, Piperomia, Petunia, Philodendron, Piggy-back plant, Poinsettia, Portulaca, Pothos, Prayer Plant, Purple Passion, Rabbit's foot fern, Rose, Schefflera, Snapdragon, Snake Plant, Statice, Velvet Plant, Verbena, Zinnia.

Remove infested plants from living areas prior to application. Spray plants 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 adult Japanese beetles on roses.

**FOR THE CONTROL OF LEAFMINERS ON CHRYSANTHEMUMS
GROWN IN GREENHOUSES AND SLATHOUSES**

To control the insects listed above, apply Perm-X 1E foliar spray only in accordance with the chart below. DO NOT USE AS SOIL DRENCH. Use sufficient water to obtain full coverage of all foliage. Adjust spray volume to plant size. Use spray intervals of 4 to 8 days. Timing and frequency of applications should be based upon insect populations reaching economic thresholds. Use the longer interval between sprays and lower application rate when population control has already been obtained and pressure is already declining due to initial Perm-X 1E application, and/or whenever preventive leafminer control is desired. High rate of application may be required under conditions of very heavy infestations and/or where local difficulty in control of leafminers has been reported. Perm-X 1E application can be made up to the day of harvest.

PETS
READ ENTIRE LABEL BEFORE EACH USE
USE ONLY ON DOGS TO KILL FLEAS, BROWN DOG AND LONE STAR TICKS

APPLICATION DIRECTIONS:

Fleas, Brown Dog and Lone Star Ticks on Dogs: Spray animals along back, under forelegs and on other areas, except scrotum, face and anus. Part hair to contact skin and insure good coverage. Hold sprayer about one foot, (30 cm) away while spraying. Apply until hair is thoroughly moist. Do not spray directly in eyes, mouth, or nose of animal. Do not reapply product for 7 days. Application of product on pets must only be done indoors.

PESTS OUTDOORS

Pests on Outside Surfaces of Buildings: Use this product to control ants, clover mites, crickets, earwigs, millipedes and sowbugs (pillbugs) on the outside surfaces of buildings. To help prevent infestation of buildings, treat the building foundation to a height of 2 feet, where pests are and may find entrance. Also, apply as a residual spray to outside surfaces of buildings, including porches, screens, window frames, eaves, patios, garages, refuse dumps, and other areas where these pests congregate or have been seen. Repeat treatment in 7-14 days if infestation continues.

House Flies, Mosquitoes, Cluster Flies, Gnats, Flying Moths Outdoors: For outdoor use only, as an aid in reducing annoyance from these insects: spray outside surfaces of screens, doors, window frames or wherever these insects may enter the room. Also treat surfaces around light fixtures on porches, in garages, and other places where these insects alight or congregate. Repeat treatment in 7-14 days if infestation continues.

Ants, Lone Star Ticks, Fleas, and Earwigs Outdoors: For treatment of localized infestations of these insects in outdoor areas where there are weeds or bushy non-crop areas, spray infested areas thoroughly. For ants, thoroughly wet hills and runways. Repeat treatment in 7-14 days if infestation continues.

TO CONTROL FIRE ANTS: Dilute 2 tablespoons of this product in 1 gallon of water. Apply 1 gallon of solution as a gentle rain to each fire ant mound using a sprinkler can. Thoroughly wet the mound and surrounding area to a 4 foot diameter. For best results, apply in cool weather, 65-80° F (18.5-27° C), or in early morning or late evening hours. Treat new mounds as they appear. Do not disturb the mound prior to treatment. If possible, treat all mounds in the vicinity, and treat all colonies which may not as yet have constructed a mound. Larger quantities of solution can be prepared for multiple mound treatments. Equipment to deliver the diluted product as a gentle rain at the rate of 1 gallon (3.79 L) per mound is still required. Do not use equipment that produces a pressurized spray, as pressurized sprays may disturb fire ants and cause migration reducing product effectiveness.

FOR USE ON ORNAMENTAL PLANTS, MIX PERM-X WITH WATER IN THE FOLLOWING MANNER

FINISHED SPRAY	PERM-X 1E	WATER
0.015%	1 teaspoon	1 gallon

Note: Do not use more Perm-X 1E than recommended, as this may cause some plant injury. Use this dilution unless other instructions are given.

CONTACT AND RESIDUAL SPRAY — Apply a finished spray of Perm-X 1E. Use sufficient spray to obtain full coverage of all foliage. Adjust spray volume used to plant size. Spray until the surface is just damp, but not to the point of runoff. Avoid excess application.

Spray directly on insects to kill leafrollers, armyworms, cutworms, cabbage worms on chrysanthemums, fungus gnats on velvet plants. Spray as directed above. Spray until the surface is just damp, but not to the point of run-off. Avoid excess applications. Also see specific chrysanthemum directions. Spray as directed above to control aphids, armyworms, corn earworms, fall cankerworms, inchworms, Japanese beetles, leafminers, leafrollers, mealybugs, scales, spider mites, spring cankerworms, exposed thrips, and whiteflies on the following plants: Ageratum, Ardisia, Aster, Azalea, Baby's Breath, Begonia, Bird's-nest Fern, Bleeding Heart, Carnation, Chrysanthemum, Coleus, Crown of Thorns, Cockscomb, Cyclamen, Dracaena, Dumbcane, English Ivy, Fuchsia, Gladiolus, Grape Ivy, Hypoestes, Ivy, Juniper, Lily, Marigold, Orchid, Palm, Pansy, Piperomia, Petunia, Philodendron, Piggy-back plant, Poinsettia, Portulaca, Pothos, Prayer Plant, Purple Passion, Rabbits foot fern, Rose, Schefflera, Snapdragon, Snake Plant, Statice, Velvet Plant, Verbena, Zinnia.

Spray plants 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 adult Japanese beetles on roses.

FOR THE CONTROL OF LEAFMINERS ON CHRYSANTHEMUMS

To control the insects listed above, apply Perm-X 1E foliar spray only in accordance with the chart below. Do not use as soil drench. Use sufficient water to obtain full coverage of all foliage. Adjust spray volume to plant size. Use spray intervals of 4 to 8 days. Timing and frequency of applications should be based upon insect populations reaching economic thresholds. Use the longer interval between sprays and lower application rate when population control has already been obtained and pressure is already declining due to initial Perm-X 1E application, and/or whenever preventive leafminer control is desired. High rate of application may be required under conditions of very heavy infestations and/or where local difficulty in control of leafminers has been reported. Perm-X 1E application can be made to the day of harvest.

MIXING INSTRUCTIONS

Prepare final spray solution by adding the required amount of Perm-X 1E to the mixing tank which has been pre-filled with water to the ½ full mark. Thereupon under agitation, carefully mix while adding water until the spray tank is filled to its full mark or to the desired spray volume. Use the Perm-X1E final spray during the day of preparation.

CHRYSANTHEMUM SPRAY DIRECTIONS

Crop	Target Pest	Lbs ai/100 gals of spray	No. of pints of Perm-X 1E per 100 gallons of spray
Chrysanthemum	Vegetable Leafminers	Normal 0.125 High 0.4	1 pint 3.2 pints

Use one teaspoon of Perm-X 1E in one gallon of water.

CONTACT AND RESIDUAL SPRAY: Apply a finished spray of Perm-X 1E. Use sufficient spray to obtain full coverage of all foliage. Adjust spray volume used to plant size.

Spray in the late afternoon or evening when the temperature ranges from 50° F to 75° F and where there is little or no wind. Spray at the first indication of insect pests. On those plants that will flower during the season, the spray schedule should be completed before blossom formation. Repeat treatment in 7-14 days if infestation continues. 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, Arizona Cypress, Aster, Azalea, Begonia, Coleus, Common nineback, Common snowberry, Elm, Exacum, Euonymous, English Ivy, Gladiolus, Gold Bells, Hypoestes, Ivy, Lilac, Marigold, Mock Orange, Nannyberry, Orchid, Palm, Pansy, Pea Shrub, Petunia, Philodendron, Poinsettia, Rhododendron, Rose, Snapdragon, Taxus, Wax plants, Weeping fig, Zinnia.

FOR ORNAMENTAL TREES GROWN AROUND THE HOME

Use one teaspoon of Perm-X 1E in one gallon of water.

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 fl oz of this product in one gal 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.

CLUSTER FLIES

Apply this product undiluted to the outside surfaces of buildings at the rate of 2.5 fl oz/1,000 sq ft. Use apparatus which delivers a strong mist spray of small particle size. Hold nozzle about three feet from surface to be treated. Apply when wind velocity is less than 2 mph to avoid drift.

FOR USE ON HOME LAWNS

For control of ants (including fire ants), armyworms, chinch bugs, crickets, cutworms, Japanese beetle grubs, grasshoppers, mole crickets and sod webworms, consult the following chart.

PESTS	DILUTION
army worms cutworms chinch bugs Japanese beetle grubs mole crickets sod webworms	5 tsp/10 gal water/1,000 ft ²
Crickets grasshoppers ants (including fire ants)	2 tsp/3 gal water/1,000 ft ²
<p>Lawns should be no taller than 3 inches 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.</p> <p>Also for control of cutworms on dichondra and Irish moss. Use as directed above for lawns.</p>	

STORAGE AND DISPOSAL

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

STORAGE: Store this product in original container in a locked storage area.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Nonrefillable container. Do not refill or reuse this container. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. [For containers too large to shake (i.e., with capacities greater than 5 gallons or 50 lbs) triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ 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 rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.] Then, offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and Local authorities.

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Viton® — Registered Trademark of DuPont Dow Elastomers

[Manufactured for]:

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