

655-783

04/18/2011

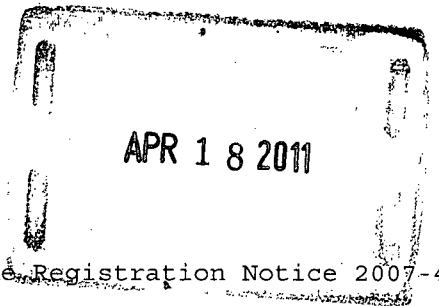
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Ms. Sharon M. Johnston
Prentiss, Inc.
3600 Mansell Road, Suite 350
Alpharetta, GA 30022



Subject: Label Notification(s) for Pesticide Registration Notice 2007-4

Dear Ms. Johnston:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4 dated March 9, 2011 for the following product(s):

Prentox Perm-X 1E™ Reg. No. 655-783

The Registration Division (RD) has conducted a review of this request for applicability under PR Notice 2007-4 and finds that the label change(s) requested falls within the scope of PRN 2007-4. The label has been date-stamped "Notification" and will be placed in our records.

If you have any questions, please contact Linda A. DeLuise at 703-305-5428.

Sincerely,

Richard J. Gebken
Product Manager
Insecticide Branch
Registration Division (7504P)



United States
Environmental Protection Agency
Washington, DC 20460

Registration
 Amendment
 Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 655-783	2. EPA Product Manager Richard Gebken	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Prentox Perm-X 1E	PM# 10	
5. Name and Address of Applicant (Include ZIP Code) Prentiss, Inc. 3600 Mansell Road, Suite 350 Alpharetta, GA 30022 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is NOTIFICATION composition and labeling to: EPA Reg. No. <u>APR 18 2011</u> Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification (see cover letter for certification statement):

Deletion of chemical name for permethrin per PR Notice 97-5
Revised container disposal instructions per PR Notice 2007-4
Addition of language required in the June 4, 2009 pyrethroid letter

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Metal	<input checked="" type="checkbox"/> Plastic
				<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
* Certification must be submitted				Other (Specify) _____	
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 1.0 pint, 1.0 quart, 1.0 - 30 gallons		5. Location of Label Directions <input checked="" type="checkbox"/> On label	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input checked="" type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input type="checkbox"/> Other _____		

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Sharon M. Johnston	Title Agent for Prentiss, Inc.	Telephone No. (Include Area Code) (636) 942-2583
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Agent for Prentiss, Inc.	
4. Typed Name Sharon M. Johnston	5. Date March 9, 2011	

RegGuide

March 9, 2011

Document Processing Desk (NOTIF)
Insecticide Branch
Registration Division (7504P)
Office of Pesticide Programs
US Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202-4501

ATTN: Richard Gebken
Product Manager 10
Insecticide Branch

SUBJECT: SUBMISSION OF LABEL NOTIFICATION
Prentox Perm-X 1E; EPA Reg. No. 655-783

Dear Mr. Gebken:

Attached, please find one copy of revised labeling marked to show the following changes:

1. Deleted the chemical name for permethrin per PR Notice 97-5.
2. Revised container disposal instructions per PR Notice 2007-4.
3. Addition of language required by the June 4, 2009 pyrethroid letter.

This notification is consistent with the guidance in the June 4, 2009 letter, PR Notices 97-5 & 2007-4 and the requirements of EPA's regulations at 40 CFR §§156.10, 156.140, 156.144, 156.146, 156.156 and 40 CFR 152.46 and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the guidance of in the June 4, 2009 letter, PR Notices 97-5 & 2007-4 and the requirements of 40 CFR §§156.10, 156.140, 156.144, 156.146, 156.156 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Changes in response to the permethrin PDCI were previously submitted to the Pesticide Re-evaluation Division.

If you need additional information or have any questions regarding this submission, please do not hesitate to contact me at (636) 942-2583 or e-mail to: johnston@RegGuide.net.

Sincerely,



Sharon M. Johnston
Regulatory Consultant

Enclosures

cc: L. Eichler; Prentiss

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Prentox Perm-X 1E
EPA Registration No. 655-783



PERM-X™ 1E

Only for sale to, Use, and Storage by Licensed Pest Control Applicators.
Contains 1 lb/gal. (120g/l) of Permethrin Technical

ACTIVE INGREDIENT:

Permethrin*	13.30%
Related Compounds	1.32%
OTHER INGREDIENTS**:	<u>85.38%</u>
	TOTAL 100.00%

* (3-phenoxyphenyl) methyl(±)Cis, Trans-2,2-dichloro-ethenyl)2,2-dimethylcyclopropanecarboxylate. Cis/trans Isomers ratio min. 35%(±) cis and max 65% (±) trans.

**Contains Xylene Range Aromatic Solvent

PRENTOX® — Registered Trademark of Prentiss Incorporated

Perm-X™ — Trademark of Prentiss Incorporated

Viton® — Registered Trademark of DuPont Dow Elastomers

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 PRECATUIONARY STATEMENTS, FIRST AID STATEMENTS AND DIRECTIONS FOR USE.

EPA Reg. No. 655-783

EPA Est. No.

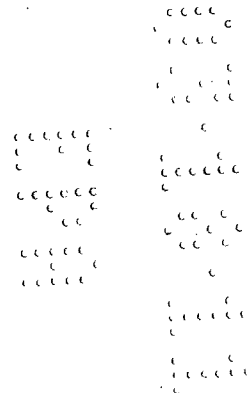
NET CONTENTS _____

LOT # _____

Manufactured by:

PRENTISS INCORPORATED
Plant: Kaolin Road, Sandersville, GA 31082
Office: 3600 Mansell Road, Suite 350, Alpharetta, GA 30022

**NOTIFICATION
APR 18 2011**



FIRST AID	
Have product label with you when obtaining treatment.	
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Do not give any liquid to the person. • Do not induce vomiting unless told to do so by a poison control center or a doctor. • Do not give anything by mouth to an unconscious person.
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 eyes. • Call a poison control center for treatment advice.
If inhaled	<ul style="list-style-type: none"> • 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 further treatment advice.
Contains petroleum distillate – vomiting may cause aspiration pneumonia. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-858-7378 for emergency medical treatment information.	
NOTE TO PHYSICIAN: This product contains a pyrethroid and a petroleum solvent. The possibility of aspiration pneumonia must be considered. The 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.	
For information about this pesticide product (including health concerns, medical emergencies, or pesticide incidents), call the National Pesticide Telecommunications Network at 1-800-858-7378.	

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

Warning: Causes substantial but temporary eye injury. Harmful if inhaled, swallowed or absorbed through skin. Do not get in eyes, on skin or on clothing. Avoid breathing vapor or spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wear protective eyewear (goggles, face shield, or safety glasses). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

Personal Protective Equipment: (Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category G on an EPA chemical resistance category selection chart).

Mixer/loaders, applicators and other handlers must wear:

- Long sleeve shirt, long pants, shoes, socks
- Chemical resistant gloves such as barrier laminate or Viton®
- A respirator with an organic vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH) approval number prefix (TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R. P. or HE prefilter.
- Protective eyewear (goggles or face shield)
- A chemical resistant apron when mixing/loading or cleaning equipment
- Chemical resistant headgear for overhead exposure

User Safety Recommendations:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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 fish. Do not contaminate water by disposing of equipment wash water. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. *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 AND CHEMICAL HAZARDS

Do not use or store near an open flame. Flashpoint minimum of 112°F (44° C).

DO NOT USE THIS PRODUCT IN OR ON ELECTRICAL EQUIPMENT DUE TO THE POSSIBILITY OF SHOCK HAZARD.

DIRECTIONS FOR USE

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

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. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

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.

Discard clothing and other absorbent materials that have been drenched with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separate from other laundry. Do not apply this product in patient rooms or in any room occupied by the elderly or infirm. 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. 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, cover all food handling surfaces and cover or remove all food and cooking utensils, or wash thoroughly after treatment. Exposed food should be covered or removed. Remove or cover fish bowls before application.

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 24 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: chemical-resistant gloves, such as barrier laminate or Viton[®], a respirator with an organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), and protective eyewear (goggles, face shield, or safety glasses).

FOR USE IN NON-FOOD AREAS, INDOORS AND OUTSIDE PREMISES OF HOTELS, MOTELS, HOMES, PRESCHOOLS, NURSERIES, DAY CAMPS, GREENHOUSES, LATHOUSES, 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. 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). IN HOSPITALS, PATIENTS SHOULD BE REMOVED PRIOR TO TREATMENT. 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 1580 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 3/4	1 gallon
0.25%	3/4	1 quart
0.50%	5 1/2	1 gallon
0.50%	1 1/2	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, drug store 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 no to the point of run-off. Avoid excess application.

For Bedbugs: 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 bedbugs concentrating on tufts, folds and seams. Spray until the surface is just damp, but not to the point of run-off. 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, saw-toothed 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, drug store beetles, chocolate moths, carpet beetles — remove infested grain, cereal or flour and destroy. Avoid contamination of other food and food stuffs 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 run-off. 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 run-off. 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 run-off. 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 run-off. Avoid excess application. Repeat treatment in 7 – 14 days if infestation continues.

Fleas, Brown Dog and Lone Star Ticks on Premises: To prevent re-infestation, 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 run-off. Avoid excess application.

PETS

**PRE-TREATMENT DIRECTIONS
READ ENTIRE LABEL BEFORE EACH USE**

USE ONLY ON DOGS TO KILL FLEAS, BROWN DOG AND LONE STAR TICKS: Do not use on dogs under 12 weeks.

SPECIAL ANIMALS

Consult a veterinarian or call the National Pesticide Telecommunications Network at 1-800-858-7378, before using this product on debilitated, aged, pregnant, nursing or medicated animals.

ADVERSE REACTION INFORMATION

Sensitivities may occur after using ANY pesticide product for pets. If signs of sensitivity occur, bathe your dog with mild soap and rinse with large amounts of water. If signs continue, consult a veterinarian immediately, or call the National Pesticide Telecommunications Network at 1-800-858-7378.

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.

REAPPLICATION DIRECTIONS

Do not reapply product for 7 days.

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 run-off. Avoid excess application. Keep the room closed for at least 15 minutes. Upon reentry open windows and ventilate for at least 2 hours before humans and pets are allowed to reoccupy the treated space.

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 run-off. 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 run-off. 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.

PEST OUTDOORS

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.

Do not water the treated area to the point of run-off. Do not make applications during rain.

Pest 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 to 3 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 1E WITH WATER IN THE FOLLOWING MANNER

FINISHED SPRAY 0.015%	PERM-X 1E 1 teaspoon	WATER 1 gallon
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*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 run-off. Avoid excess application.

INDOORS: To protect plants in greenhouses and lathouses, 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 run-off. 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, Rabbits foot fern, Rose, Scheffiera, Snapdragon, Snake Plant, Stalice, Velvet Plant, Verbena, Zinnia.

If application is to be made indoors, 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 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 1/2 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 RECOMMENDATIONS

Crop	Target Pest	Lbs.a.i./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

OUTDOORS: 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 when 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, mealy bugs, 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, Saxus, 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. ozs. 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/1000 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/1000 ft ²
crickets grasshoppers ants (including fire ants)	2 tsp./3 gal. water/1000 ft ²
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.	
Also for control of cutworms on dichondra and Irish moss. Use as directed above for lawns. Keep children and pets off treated areas until lawn has dried following the application.	

STORAGE & 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: For containers One Gallon and Under: Do not reuse empty container. Wrap container and put in trash. For containers Over One Gallon: Triple rinse (or equivalent). 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. Non-refillable container. Do not refill or reuse this container. Clean container promptly after emptying. [For containers 5 gallons or less] 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 1/4 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. 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. [For containers greater than 5 gallons] 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 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.

