

53883-73

8.8.2008

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

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES.

Amy Warren  
Registration Specialist  
Control Solutions, Inc.  
5903 Genoa-Red Bluff  
Pasadena, TX 77507-1041

AUG 8 2008

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

Dear Ms. Warren:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4 dated June 11, 2008 for:

**EPA Registration 53883-73**

**Permethrin 3.2 E.W.C.**

The Registration Division (RD) has conducted a review of this request for applicability under PRN 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.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on nonrefillable containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

If you have any questions, please contact me directly at 703-305-6249 or Nicole Williams of my staff at 703-308-5551.

Sincerely,

A handwritten signature in black ink, appearing to read "Linda Arrington".

Linda Arrington  
Notifications & Minor Formulations Team Leader  
Registration Division (7505P)  
Office of Pesticide Programs



United States  
**Environmental Protection Agency**  
 Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number

**Application for Pesticide - Section I**

1. Company/Product Number 53883 - 73	2. EPA Product Manager George LaRocca	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Permethrin 3.2 EWC	PM# 13	
5. Name and Address of Applicant (Include ZIP Code) Control Solutions, Inc. 5903 Genoa-Red Bluff Pasadena, TX 77507-1041 <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 similar or identical in composition and labeling to: EPA Reg. No. <b>NOTIFICATION</b> <b>AUG 08 2008</b> 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 of label change per PR Notice 2007-4. This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for 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 the amended label is not consistent with the requirements of 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156, 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.

**Section - III**

1. Material This Product Will Be Packaged In:

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	2. Type of Container <input checked="" type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
* Certification must be submitted		If "Yes" Unit Packaging wgt.    No. per container	If "Yes" Package wgt    No. per container

3. Location of Net Contents Information  
 Label  Container

4. Size(s) Retail Container  
1, 5, 10, 55 gal    250gal tote

5. Location of Label Directions  
 on label

6. Manner in Which Label is Affixed to Product  
 Lithograph Paper glued Stenciled  Other \_\_\_\_\_

**Section - IV**

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)

Name Amy Warren	Title Regulatory Affairs Specialist	Telephone No. (Include Area Code) 800-242-5562
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**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 <i>Amy Warren</i>	3. Title Regulatory Affairs Specialist
4. Typed Name Amy Warren	5. Date 06-11-08



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**C O N T R O L**  
**S O L U T I O N S**  
i n c o r p o r a t e d

June 11, 2008

Document Processing Desk (NOTIF)  
Office of Pesticide Programs  
U.S. Environmental Protection Agency  
One Potomac Yard  
2777 S. Crystal Drive  
Arlington, VA 22202

**Re: Notification per (PR) Notice 2007-4, Labeling Revisions required by the Final Rule  
"Pesticide Management and Disposal"  
Permethrin 3.2 E. W. C. (EPA Reg. No. 53883-73)**

Dear Sir or Madam:

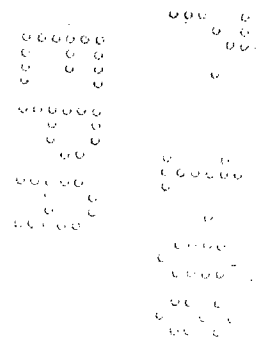
Enclosed is a Notification for (PR) 2007-4; See highlighted text on attached labeling.

Notification of label change per PR Notice 2007-4. This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for 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 the amended label is not consistent with the requirements of 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156, 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.

If you have any questions or need additional information, please feel free to contact me.

Sincerely,

Amy Warren  
Regulatory Affairs Specialist  
Control Solutions, Inc.



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**NOTIFICATION**

**AUG 08 2008**

[FRONT LABEL PANEL]

# **Permethrin**

## **3.2 E.W.C.**

Only For Use By Commercial, Industrial and Agricultural Personnel

[Optional proposed text appears in brackets - the final label may include some or all of the optional text]

- [• Kills Termites\*[including dry-wood termites](for localized control only)]
- [• For Use around foundations, outside buildings, porches, wood piles, wooden fences and decks, patios]
- [• Kills troublesome outdoor insects which destroy Lawns, Roses, Flowers, Trees and Shrubs, Vegetables, Fruits, and Nuts]
- [• Provides contact and residual control for up to 4 weeks]
- [• KILLS OVER 100 DIFFERENT INSECTS]
- [• Indoor/Outdoor Insecticide]
- Water Based
- Protects your Lawns, Trees & Shrubs, Roses & Flowers, Fruits & Nuts, and Vegetables from: Alfalfa loopers, Ants, Aphids, Armyworms, Bagworms, Beetles, Borers, Brown dog ticks, Budworms, Cabbageworms, Chinch bugs, Cicadas, Citrus black flies, Cluster flies, Codling moths, Corn earworms, Crickets, Cutworms, Earwigs, Elm spanworms, Fall cankerworms, Fire Ants, Fleas, Green fruitworms, Gnats, Grasshoppers, Houseflies, Inchworms, Japanese beetles, Leafhoppers, Leafminers, Leafrollers, Lone Star ticks, Lygus bugs, Mealybugs, Millipedes, Mole crickets, Mosquitoes, Moths, Navel orangeworms, Scales, Sod webworms, Sowbugs (pillbugs), Spider mites, Spring cankerworms, Tent caterpillars, Thrips, Tobacco budworms, Weevils, Whiteflies and many others.

**ACTIVE INGREDIENT:**

Permethrin ..... 3.20%

**INERT INGREDIENTS:** ..... 96.80%

**TOTAL:** ..... 100.00%

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**

**See Back/Side Label Panel For Additional Precautionary Statements**

Net Contents \_\_\_\_\_

**[BACK/SIDE LABEL PANEL]**

- **READ ENTIRE LABEL BEFORE USE**
- **FOR PET USE - USE ONLY ON DOGS**

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

**CAUTION:** Harmful if swallowed, inhaled or absorbed through skin. Causes moderate eye irritation. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing. Remove contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling.

<b>FIRST AID</b>	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
If swallowed	<ul style="list-style-type: none"> <li>• Call poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
If inhaled	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
If in eyes	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If on skin or clothing	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>NOTE TO PHYSICIAN AND VETERINARIANS:</b> Do not administer or instill milk, cream or other substances containing vegetable or animal fats which will enhance absorption of lipophilic substances.	

**[BACK/SIDE LABEL PANEL]**

**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 E on an EPA chemical resistance category section chart.

**Applicators and other handlers must wear:** Long-sleeved shirt and long pants, chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, or viton, and shoes plus socks. For exposure in enclosed areas, a respirator a respirator with a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**Engineering Controls Statements:**

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(4-6)] the handler PPE requirements may be reduced or modified as specified in the WPS.

When using in an enclosed area, do not remain in the treated area. Ventilate the area after treatment is completed. Food should be removed or covered during treatments. All food processing surfaces should be covered during treatment or thoroughly cleaned with an effective cleaning compound followed by a potable water rinse before use. When using this product in these areas, apply only when facility is not in operation.

Do not apply as a space spray while food processing is underway. Except in Federally inspected meat and poultry plants, food processing operations may continue when this product is applied as a surface spray with care and in accordance with the directions and precautions given below.

**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 pesticide is extremely toxic to fish. Do not apply directly to water. Avoid contamination of ornamental fish ponds. Drifts and runoff from treated areas may be hazardous to aquatic organisms in treated areas. Do not contaminate water when cleaning equipment or disposing of equipment washwaters. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively, visiting the treatment area.

**[BACK/SIDE LABEL PANEL]**

**PHYSICAL OR CHEMICAL HAZARDS**

Do not use or store near heat or open flame. Do not use in undiluted form.

**DIRECTIONS FOR USE**

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

**Keep people and pets off treated areas until the spray has dried.**

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.

**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), and restricted-entry interval. 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 to 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, wear:

- Coveralls
- Chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber or viton.
- Shoes plus socks

**NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not allow children or pets to contact treated surfaces until spray has dried.

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**[BACK/SIDE LABEL PANEL]**

Do not apply this product through any type of irrigation system.

**SHAKE WELL BEFORE USING**

**THREE STEPS TO MIX AND APPLY:**

1. For lawns and vegetables, measure the area to be sprayed. Calculate square feet by multiplying length by width. For all other applications, apply as a thorough cover spray.
2. Use a clean sprayer. Carefully measure and mix the amount of concentrate and water as directed.
3. Spray as directed. Thorough coverage is important. Flush sprayer with clean water after each use. Make applications when insects first appear. Repeat applications as directed.

Use Dilution rate as indicated:

1 fl.oz. = 6 tsp. or 2 Tbsp.

8 fl.oz. = ½ pt. or 1 cup



[BACK/SIDE LABEL PANEL]

DIRECTIONS FOR APPLYING

HOME LAWNS

Turf	Pests	How to Use
Bentgrass, Bermudagrass, Bluegrass, Dichondra, Fescue, Irish Moss, Merion, St. Augustine Grass	Ants, Armyworms, Brown dog ticks, Chinch bugs, Crickets, Cutworms, Fleas, Grasshoppers Japanese beetle grubs, Mole crickets, Sod webworms, Ticks that carry Lyme Disease, Leafhoppers	Thoroughly wet down grass a few hours before applying. Home 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 below. For heavy infestations, repeat application after 2 weeks. <b>For ants, crickets and</b> <b>grasshoppers,</b> use 1½ fl. oz. in 3 gals. of water to cover 1,000 sq. ft. <b>For other listed insects,</b> use 4-2/3 fl. ozs. in 10 gals. of water to cover 1,000 sq. ft.

[BACK/SIDE LABEL PANEL]

**HOUSE PLANTS**

**INDOORS: TO PROTECT PLANTS IN RESIDENTIAL GREENHOUSES AND LATHHOUSES AND FOR INDOOR LANDSCAPING:**

House Plants	Pests	How to Use
Ageratum, Ardisia, Aster, Baby's Breath, Begonia, Birdsnest Fern, Bleeding Heart, Carnation, Chrysanthemum, Coleus, Crown of Thorns, Cockscomb, Cyclamen, Dracaena, Dumbcane, English Ivy, Fuchsia, Gladiolus, Grape Ivy, Juniper, Lily, Marigold, Orchid, Palm, Pansy, Peperomia, 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	Aphids, Armyworms, Corn earworms, Exposed thrips, Fall cankerworms, Inchworms, Japanese beetles, Leafminers, Leafrollers, Mealybugs, Scales, Solder mites, Spring cankerworms, Whiteflies	Mix ¾ fl. oz. in 1 gal. of water. Contact and residual: Use sufficient spray to obtain full coverage of all foliage. If application is to be made indoors, remove infested plants from living areas prior to application. Use in an area not likely to be occupied by people or pets (particularly fish). After spraying, plants can be returned to original location. Do not use more product than recommended, as this may cause some plant injury. Use with care on ferns, palms and fuchsia. As with all plants listed, 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, treat a few plants as described above, wait 24 hours, and check for possible injury.
Velvet Plants	Fungus Gnats	

**Fire Ant Control**

**Individual Mound and Plant Container Treatment**

Mix 4 2/3 fl. oz. in 3 gals. of water and apply as a drench using a sprinkler can. Gently apply 1 gallon of the mixture over the surface of each mound. Thoroughly wet mound and surrounding area of 3x4 ft. (12 sq. ft.). For best results apply in cool weather 65°-80°F. early or late in the day. Treat new mounds as they appear. Pressurized sprays may disturb ants and cause migration which will reduce product effectiveness. **Use the same method as above for the control of Fire Ants that may nest in permanently placed containerized ornamentals plants.**

TREES & SHRUBS

Trees & Shrubs	Pests	How to Use
Arizona, Cypress, Azalea, Birch, Cherry, Non-bearing Citrus, Conifers, Elm, English Ivy, Euonymus, Weeping Fig, Fir, Honeysuckle, Lilac, Mock-orange, Oak, Palm, Philodendron, Pine, Poinsettia, Tulip Poplar, Rhododendron, Taxus	Aphids, Bagworms, Cicadas, Exposed thrips, Fall cankerworms, Inchworms, Leafminers, Leafrollers, Mealybugs, Spider mites, Whiteflies, Gypsy Moth, Tent Caterpillar, Japanese Beetles	Use 3/4 fl. oz. in 1 gal. of water. Use sufficient spray to obtain full and uniform coverage. Avoid spraying to the point of runoff. Try to cover underside of leaves and penetrate dense foliage. Spray in the late afternoon or evening, when the temperature ranges from 50 <sup>o</sup> -75 <sup>o</sup> F and when there is little or no wind. Spray at the first sign of insects. Application can be made up to the day of collection.
Cherry, Honeysuckle	Fall webworms	
Conifer	Budworms	
Elm	Elm leaf beetles, Elm spanworms, Fall webworms	
Douglas and Grand Firs	Tussock moths	
Non-bearing Citrus	Citrus black flies	
Oak	Oakworms	
Pine	Pine beetles, Pine moths, Pine needle miners, Needle scales	

On 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. Wet tents with spray on all sides. A few caterpillars may be seen escaping from the tent; however, they should die within several hours.

## [BACK/SIDE LABEL PANEL]

## ROSES &amp; FLOWERS (ORNAMENTALS)

Roses & Flowers (Ornamentals)	Pests	How to Use
Ageratum, Aster, Ardisia, Azalea, Baby's breath, Begonia, Birds-nest fern, Bleeding heart, Carnation, Chrysanthemum, Coleus, Common Ninebark and Snowberry, Crown of thorns, Cockscomb, Cyclamen, Dracaena, Dumbcane, English Ivy, Exacum, Fuchsia, Gladiolus, Grape Ivy, Gold bells, Hypoestes, Ivy, Juniper, Lilac, Marigold, Mock-Orange, Nannyberry, Orchid, Palm, Pansy, Pea shrub, Peperomia, Petunia, Philodendron, Piggy-back Plant, Poinsettia, Portulaca, Pothos, Prayer Plant, Purple Passion, Rabbits foot fern, Rhododendron, Rose, Schefflera, Snapdragon, Snake Plant, Statice Velvet Plant, Verbena, Zinnia	Aphids, Armyworms, Bagworms, Cabbage worms, Cicadas, Cornworms, Cutworms, Exposed thrips, Fall cankerworms, Fall webworms, Fungus gnat, Inchworms, Japanese beetles, Leafminers, Leafrollers, Mealybugs, Scale crawlers, Spring cankerworms, Spider mites, Whiteflies, Rose Chafer, Psyllids, Scale Insects	Use ¼ fl. oz. in 1 gal. of water. Use sufficient spray to obtain full and uniform coverage. Avoid spraying to the point of runoff. Try to cover underside of leaves and penetrate dense foliage. Spray in the later afternoon or evening when the temperature ranges from 50 <sup>o</sup> -75 <sup>o</sup> F and when there is little or no wind. Spray at the first sign of insects. Application can be made up to the day of collection.

[BACK/SIDE LABEL PANEL]

**FRUITS & NUTS TREES**

**GENERAL DIRECTIONS**

Use 1½ fl.oz. in 1 gal. of water. Apply when insects appear. Use sufficient spray to obtain full and uniform coverage. Avoid spraying to the point of runoff. Try to cover underside of leaves and penetrate dense foliage.

Fruits & Nuts Trees	Pests	How to Use
Almonds, Pecans	Navel orangeworms, Peach twig borers	Do not make more than 2 applications during hull split and 5 applications per season. Can be applied up to 7 days prior to harvest.
Apples	Green fruitworms, Aphids, Leafrollers(Oblique-banded, Redbanded), Plum curculio, Rosy apple aphids, Spotted tentiform leafminers, Tarnished plant bugs, White apple leafhoppers, Japanese Beetles	Do not make more than 3 applications. Do not apply after petal fall.
Peaches	Borers(Lesser peachtree, Peach twig), Green fruitworms, Plum curculio, Oriental fruit moths, Tarnished plant bugs	Do not apply within 7 days of harvest. Do not make more than 8 applications per season.
Pears (dormant through delayed dormant)	Pear psylla	Apply during the dormant through delayed dormant growth period only. Do not make more than 2 applications per season.
Pears (summer)	Codling Moths, Green fruitworms, Pear psylla, Aphids	Do not make more than 3 applications per season. Can be applied up to 14 days prior to harvest.

[BACK/SIDE LABEL PANEL]

**VEGETABLES**

Prepare a spray solution at the dilution rates listed for each crop in the chart below. Apply the spray solution at the rate of 1 gallon to cover 440 square feet surface area.

Vegetables	Pests	How to Use
Asparagus (pre-harvest)	Asparagus beetles, Cutworms	Use 2½ fl. oz. in 2 gals. of water. Apply to ensure uniform coverage. Do not apply more than 4 applications per crop. Can be applied up to 3 days prior to harvest.
Asparagus (post-harvest)	Larval stages of asparagus beetle; Tarnished plant bugs, Lygus bugs, Adult Japanese beetle	Use 2½ fl. oz. in 2 gals. of water. Treat ferns or bush growth after spear harvest when insects are present.
Celery-see Leafy Vegetables		
<u>Cole Crops:</u> Broccoli, Brussels Sprouts, Cabbage, Cauliflower	Beet armyworms, Cabbage aphids and loopers, Diamondback moths, Imported cabbageworms	Use ¾ fl. oz. in 1 gal. of water. Apply every 5 days only as needed to maintain insect control. Can be applied up to 1 day prior to harvest. Do not make more than 8 applications on Cauliflower, Brussels Sprouts and Broccoli and 10 applications on Cabbage.
Corn-see Sweet Corn		
Cucumber, Melons, Pumpkins, Squash	Flea beetle, Leafhopper	Use 1½ fl. oz. in 1 gal. water. Do not make more than 8 applications per season. Can be applied up to 3 days prior to harvest.

<p><u>Cucurbits</u>: Balsam pear(bitter melon), Chinese waxgourd(Chinese preserving melon), citron melon, cucumber, gherkin, edible gourds; melons including hybrids such as cantaloupe, casaba, crenshaw, honeydew, honey balls, mango melon, muskmelon, Persian melon, pumpkin, summer &amp; winter squash, watermelon</p>	<p>Aphids, Cabbage looper, Cucumber Beetle (adults), Cutworms, Leafhoppers, Leafminers, Melonworms, Pickleworm, Plant bugs, Squash bugs.</p>	<p>Use 1½ fl. oz. in 1 gal. of water. Apply to ensure uniform coverage. Can be applied up to the day of harvest.</p>
<p>Eggplant</p>	<p>Colorado potato beetles, Vegetable leafminers</p>	<p>Use 2½ fl. oz. in 1 gal. of water. Apply to ensure uniform coverage. Do not exceed 16 applications. Can be applied up to 3 days prior to harvest.</p>
<p>Horseradish (Foliar application)</p>	<p>Imported crucifer weevils</p>	<p>Use 2½ fl. oz. in 1 gal. water. Do not exceed 3 foliar applications. Can be applied up to 22 days prior to harvest.</p>
<p>Head Lettuce</p>	<p>Corn earworms, Beet armyworms, Loopers (Alfalfa, Cabbage), Tobacco budworms</p>	<p>Use 1½ fl. oz. in 1 gal. water. Apply every 5-10 days only as needed to maintain control. Do not make more than 10 applications per season. Can be applied up to 1 day prior to harvest.</p>

<p><u>Leafy Vegetables:</u> Amaranth, Arrugula, Celery, Celtuce, Chervil, Corn salad, Chrysanthemum(edible-leaved and garland), cress(garden and upland), Dandelion, Dock, Endive, Fennel, Lettuce(head and leaf), Okra, Parsley, Purslane(garden and winter), Rhubarb, Spinach, Swiss chard</p>	<p>Alfalfa looper, Aphids, Beet armyworm, Cabbage looper, Corn earworm, Cutworms, European corn borer, Fall armyworm, Green cloverworm, Southern armyworm, Tobacco budworm, Vegetable leafminer.</p>	<p>Use 1½ fl. oz. in 1 gal. of water. Apply every 5 to 10 days only as needed for insect control. Can be applied up to 1 day prior to harvest.</p>
<p>Melons-see Cucurbits</p>		
<p>Potatoes</p>	<p>Beet armyworm, Colorado potato beetle, Potato leafhopper, Potato tuberworm, Cabbage looper, Cutworms, European corn borer, Potato psyllid, Tarnished plant bug</p>	<p>Use 2½ fl. oz. in 2 gals. of water. Apply as needed, but not more than 12 applications. Can be applied up to 7 days prior to harvest.</p>
<p>Peppers</p>	<p>Vegetable leafminers, Cabbage looper, Flea beetle, Corn earworm, Pepper weevil, European corn borer, Green cloverworms, Leafhoppers</p>	<p>Use 1½ fl. oz. in 1 gal. of water. Do not more than 8 applications per season. Can be applied up to 3 days prior to harvest.</p>
<p>Spinach</p>	<p>Beet armyworms, Corn earworms, Cabbage loopers, Cutworms, European corn borers, Green cloverworms, Leafhoppers</p>	<p>Use 2½ fl. ozs. in 2 gals. of water. Apply to ensure uniform coverage. Do not make more than 7 applications per season. Can be applied up to 7 days prior to harvest.</p>



Strawberries, Raspberries, Blueberries	Strawberry weevils, Aphids, Spider mites, Lygus bugs, Flea beetles, Omnivorous leafhopper, Spittlebugs, Japanese beetles, Field crickets, Red Spider, Leafroller, weevils	Use 1-½ fl. oz. in 1 gal. of water. Allow 14 days between last application and harvest. Make no more than 8 foliar applications per growing season.
Sweet Corn	Armyworms(Fall, Southern), Corn earworms, European corn borers	Use 2⅓ fl. oz. in 2 gals. of water. Apply every 5 days, but not more than 6 applications per season. Can be applied up to 1 day prior to harvest.
Tomatoes (Do not apply on cherry tomatoes and varieties yielding tomatoes less than one inch in diameter.)	Beet and southern armyworm, Tomato pinworm, Tomato fruitworm, Horn worms, Granulate cutworms, Colorado potato beetle, Cabbage looper	Use 2⅓ fl. oz. in 2 gals. of water. Apply to ensure uniform coverage. Can be applied up to day of harvest.

### NUISANCE PESTS IN OUTDOOR AREAS

#### GENERAL DIRECTIONS

Use 5-1/4 fl. ozs. in 1 quart of water, treating 400 linear feet with a 6-inch spray band.

#### OUTSIDE SURFACES OF BUILDING

Use Permethrin 3.2 E.W.C. on Ants, Clover mites, Crickets, Earwigs, Millipedes, Sowbugs(pillbugs) and spiders to help prevent infestation of buildings, treat the building foundation to a height of 2 to 3 feet, where pests are active and may find entrance. Also, apply as a residual spray to outside surfaces of building, including porches, screens, window frames, eaves, patios, garages, refuse dumps and other areas where these pests congregate or have been seen.

#### OTHER OUTDOOR AREAS

Use Permethrin 3.2 E.W.C. on Ants, Crickets, Earwigs, Fleas, Ticks (including ticks that may carry Lyme Disease) for treatment of localized infestations of these insects in areas where there are weeds or bushy non-crop areas, spray infested areas thoroughly. For ants, thoroughly wet hills and runways. Repeat application as reinfestations occur.

To reduce annoyance from: Cluster flies, Flying moths, Gnats, House flies, Mosquitoes. 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, around shrubbery, and other places where these insects alight or congregate.

**[BACK/SIDE LABEL PANEL]**

**WOOD-INFESTING INSECTS (including termites\*): For Beetles (Furniture, Deathwatch, False powderpost, Longhorned, Powderpost), Carpenter Ants (and other wood-infesting ants), Carpenter bees and Termites (including dry-wood termites):**

Treat outside surfaces of buildings, porches, wooden decks and patios, wooden fences, window frames, doorways, foundations, eaves, patios, garages, garbage areas and other areas where you may find these pests.

Mix 7¼ fl. ozs. with 1 gallon of water to treat 100 sq.ft. Spray infested surfaces until thoroughly wet, avoiding dripping and runoff. Apply evenly on wood surfaces. To treat small areas, apply by brushing or spraying the diluted spray. For large areas, use a coarse, low pressure spray. Do not spray into electrical outlets or utilities.

Spray infested areas and areas likely to be infested, such as wood surfaces, voids and channels in damaged wood, spaces between wooden parts of a structure, and between wood and foundations where infestation is likely to occur, also around fenceposts, wood piles (do not use on firewood) and tree stumps.

Suitable protective clothing should be worn in confined or overhead areas to prevent exposure to eyes and skin. The use of eye protection, protective head covering, chemical resistant gloves and footwear, a long-sleeved shirt and long pants or coveralls are recommended. Do not permit contact with treated surfaces until spray has dried. Treated confined areas, such as detached garages, under porches and decks, should be ventilated during and immediately following application before the areas are re-occupied.

**For carpenter ants**, spray around doors and windows and other places where ants may enter or crawl and hide. Also treat cracks and crevices or openings into wall voids or other areas where these ants may be present. **For carpenter bees**, spray or inject into holes and tunnels already made by the bees with a tank sprayer, and spray areas where they are beginning to build tunnels into the wood. **For Termites\* [including dry-wood termites]**: treat as for other wood-infesting insects. This product will kill workers and winged reproductive forms of termites in the treated areas.

\*The purpose of such applications of Permethrin 3.2 E.W.C. for termites is to kill workers or winged reproductive forms which may be present in treated channels at the time of treatment. Such applications are not a substitute for mechanical alteration, soil treatment, or foundation treatment but are merely a supplement. This product is not recommended as sole protection against termites. For active indoor termite infestations, get a professional inspection.

[BACK/SIDE LABEL PANEL]

**ANIMALS AND ANIMAL PREMISE USE  
CATTLE BARNS, SWINE HOUSES, MILK ROOMS, KENNELS, POULTRY  
HOUSES, HORSE BARNS, DAIRIES, MILKING PARLORS, FEED LOTS,  
STABLES, PADDOCKS.**

For initial clean up of severe insect infestation, dilute at a rate of (1) part concentrate in 6 parts water (21 ounces per gallon) (0.5%). For normal infestations dilute (1) part concentrate in 32 parts water (4 ounces per gallon of water) (0.1%).

**REFERENCE CHART**

PESTS	DILUTIONS (Mix Well)	HOW TO APPLY
<b>PESTS ON FARM PREMISES</b>		
<b>(Barns, Dairies, Loafing Sheds, Milking Parlors, Feedlots, Stables, Paddocks, Poultry and Livestock Housing)</b>		
Horseflies, Stableflies, lesser Houseflies and other manure breeding flies, Fleas, Lice, Mites, Ticks, including Deer tick (carrier of Lyme disease). Aids in control of Cockroaches, Mosquitoes and Spiders.	Dilute 4 fl. ozs. in 1 gal. water Dilute 1 pt. in 4 gals. water Dilute 1 qt. in 8 gals. water Dilute 1 gal. in 32 gals. water	Spray walls and surfaces thoroughly but do not allow runoff to occur; about 1gal. per 750-1000 sq.ft. Treat no more often than once every 2 weeks. Do not contaminate Animals feed or water by spray. Do not use in milk rooms
<b>PESTS ON DOG PREMISES (Kennels, Dog Houses, Runs and Yards)</b>		
Fleas, Flies, Ticks, Lice and Mange Mites (adult and larvae)	Dilute 4 fl. ozs. in 1 gal. water Dilute 1 pt. in 4 gals. water Dilute 1 qt. in 8 gals. water Dilute 1 gal. in 32 gals. water	Thoroughly spray infested areas, pet beds and resting quarters. Fresh bedding should be placed in animals quarters following treatment. Most efficient pest control is accomplished when heavy pressure and good contact is achieved. Timing and frequency of applications should be based on pest populations reaching nuisance levels, but accompanying manure removal and sanitation practices should precede sprays. Do not spray feed, food or water. Repeat as needed but not more than once every two weeks.

**[BACK/SIDE LABEL PANEL]**

**PESTS IN CATTLE BARNs, HORSE BARNs, SWINE HOUSEs, KENNELs, MILKING PARLORs, MILK ROOMs, DAIRIES, POULTRY HOUSEs, FEEDLOTs STABLEs AND PADDOCKs**

Flies, Mosquitoes and Gnats	Dilute 4 fl. ozs. in 1 gal. water Dilute 1 pt. in 4 gals. water Dilute 1 qt. in 8 gals. water Dilute 1 gal. in 32 gals. water	FOG OR FINE MIST: Apply, directing the spray toward the ceiling and upper corners until the area is filled with mist. Use about 2 ounces per 1000 cubic feet or space. For best results, close doors and windows before spraying and keep closed for 10-15 minutes. Remove animals prior to treatment, ventilate before reoccupying.
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**PESTS ON LARGE ANIMALs (Dairy or Beef Cattle, Horses, Sheep and Goats)**

Faceflies, Hornflies, Stableflies, Mosquitoes, Lice, Mites, Ticks, including Deer tick (carrier of Lyme disease)	Dilute 0.5 fl. ozs. in 1 gal. water Dilute 1 pt. in 32 gals. water Dilute 1 qt. in 64 gals. water Dilute 1 gal. in 256 gals. water	Spray to thoroughly cover entire animal. For lice or mites a second treatment is recommended 14-21 days later. Spray lactating dairy cows on after milking is completed.
Hornflies, Faceflies, Stableflies, Ear Ticks	Dilute 6.25 fl. ozs. in 1 gal. water Dilute 1 pt. in ¾ gal. water Dilute 1 qt. in 1.5 gals. water	SPOT TREATMENT - LOW PRESSURE SPRAY Apply ½oz. per ear or 2-4oz. on face or 12-16 oz. along the backline.

**PESTS ON SWINE AND POULTRY (Do not ship swine for slaughter within 5 days of last treatment)**

Mange Mites	Dilute 4 fl. ozs. in 1 gal. water Dilute 1 pt. in 4 gals. water Dilute 1 qt. in 8 gals. water Dilute 1 gal. in 32 gals. water	Spray, dip or sponge animals. Retreat after 14 days, spraying walls and floor space and bedding to kill later hatching, developing stages.
Blowflies, Flies, Mosquitoes, Hog Lice, Fleas, Ticks, including Deer tick (carrier of Lyme disease)	Dilute 4 fl. ozs. in 1 gal. water Dilute 1 pt. in 4 gals. water Dilute 1 qt. in 8 gals. water Dilute 1 gal. in 32 gals. water	Spray, dip or sponge to apply 1 pint per pig, especially around ears.
Poultry Mites, Northern Fowl Mites & Lice	Dilute 2 fl. ozs. in 1 gal. water Dilute 1 pt. in 8 gals. water Dilute 1 qt. in 16 gals. water Dilute 1 gal. in 64 gals. water	Spray at the rate of ½oz. per bird, or 1 gal per 100 birds, with a fine mist. Spray roosts, walls and nests or cages.

**[BACK/SIDE LABEL PANEL]**

**PESTS ON DOGS (DO NOT TREAT PUPPIES LESS THAN TWELVE (12) WEEKS OF AGE)**

<p>Fleas, Ticks, including Deer tick (carrier of Lyme disease), Lice &amp; Mange</p>	<p>Dilute 2 fl. ozs. in 1 gal. water Dilute 1 pt. in 8 gals. water Dilute 1 qt. in 16 gals. water Dilute 1 gal. in 64 gals. water</p>	<p>Thoroughly wet the animal by dipping, sponging or spraying. Allow animal to dry in a warm place without rinsing or toweling. Do not reapply product for two to three weeks. Consult a veterinarian before using this product on debilitated, aged, pregnant or nursing animals or animals on medication. <b>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.</b></p>
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**INDOOR USE AREAS**

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

For maximum effectiveness, a combination of localized application and space treatment is recommended. Remove pets, birds and cover fish aquariums before spraying.

For initial clean up of severe insect infestation, dilute at a rate of (1) part concentrate in 6 parts water (21 fluid ounces per gallon) (0.5%). For normal infestations dilute (1) part concentrate in 32 parts water (4 fluid ounces per gallon) (0.1%).

**HOMES, AND THE NONFOOD/FEED AREAS OF BAKERIES, BEVERAGE PLANTS, CANNERIES, FLOUR MILLS, FOOD PROCESSING PLANTS, GRAIN ELEVATORS, GRAINARIES, HOSPITALS (non-occupied areas), HOTELS, MOTELS, INDUSTRIAL INSTALLATIONS, KENNELS, MEAT PACKING PLANTS, OFFICE BUILDINGS, RAILROAD CARS, RESTAURANTS, SCHOOLS, SHIPSHOLDS, SUPERMARKETS, TRUCK TRAILERS, WAREHOUSES.**

Do not use in 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. Serving areas are areas where prepared food is served such as dining rooms but excluding areas where food 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/feed should be covered or removed.

**[BACK/SIDE LABEL PANEL]**

Non-food/feed areas of food/feed manufacturing, processing, and handling establishments are 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).

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

**Not for use in Federally Inspected Meat and Poultry Plants.**

**As a surface spray to control cockroaches, waterbugs, palmetto bugs, ants, silverfish, beetles, mites, weevils:** Use a good sprayer and adjust 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, nests and points of entry. If surface application only is to be used, spray floors, walls and other surfaces, applying at a rate of (1) gallon to 750 square feet of surface.

**To control fleas and ticks (adult and larvae),** thoroughly spray infested areas, pets beds, resting quarters, nearby cracks and crevices, along and behind baseboards, molding, window and door frames, and localized areas of floor and floor covering. Fresh bedding should be placed in animal quarters following treatment. Apply with mechanical or compressed air equipment (non-thermal), adjusted to deliver a fine mist. Close doors and windows and shut off ventilating systems.

**For rapid control of house flies, fruit flies, gnats, mosquitoes, skipper flies, wasps, hornets, bees, black flies, angoumois grain moths and tobacco moths, SPACE SPRAY -** direct spray at an upward angle, disturbing it uniformly through the entire area at a rate of (1) ounce per 1000 cubic feet of space. Keep area closed for at least 10 minutes. Vacate area after treatment and ventilate and sweep up dead insects before occupying.

**For rapid kill of exposed or accessible stages of other insects named on this insert:** Apply using conventional mechanical or compressed air equipment (non-thermal), following directions for space spraying in the paragraph above. Apply the above dilutions at a rate of (1) ounce per 1000 cubic feet of space.

**STORAGE AND DISPOSAL**

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

**Storage and Spill Procedures:** Store upright at room temperature. Avoid exposure to extreme temperatures. In case of spillage or leakages, soak up with an absorbent material such as sand, sawdust, earth, Fuller's earth, etc. Dispose of with chemical waste.

**Pesticide Disposal:** Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of at or by an approved waste disposal facility.

**Container Disposal:**

*For Containers equal to or less than 5 Gallons :* Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. 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. Offer for recycling if available.

*For Containers greater than 5 Gallons:* Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Offer for recycling if available.

*For Bulk containers: (Refillable Container)* Refill this container with pesticides only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the re-filler. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or re-circulate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this procedure two more times.

[NOTE: Buyer assumes all risks of use, storage or handling of this product not in strict accordance with label DIRECTIONS and PRECAUTIONS.]

**NOTE:** CONTROL SOLUTIONS, INC. WARRANTS THAT THIS PRODUCT CONFORMS TO THE CHEMICAL DESCRIPTION ON THE LABEL AND IS REASONABLY FIT FOR THE PURPOSES STATED ON THE LABEL WHEN USED IN ACCORDANCE WITH THE DIRECTIONS FOR USE. IT IS IMPOSSIBLE TO ELIMINATE ALL RISKS INHERENTLY ASSOCIATED WITH THE USE OF THIS PRODUCT. INEFFECTIVENESS, OR OTHER UNINTENDED CONSEQUENCES MAY RESULT BECAUSE OF SUCH FACTORS AS WEATHER CONDITIONS, PRESENCE OF OTHER MATERIALS, OR THE MANNER OR APPLICATION, ALL OF WHICH ARE BEYOND THE CONTROL OF CONTROL

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**[BACK/SIDE LABEL PANEL]**

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EPA Registration No. 53883-73  
EPA Establishment No. 53883-TX-2