

89711-1

12/17/2013

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<p align="center">U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (7505P) 1200 Pennsylvania Avenue, N.W. Washington, D.C. 20460</p> <p>NOTICE OF PESTICIDE: <input checked="" type="checkbox"/> Registration <input type="checkbox"/> Reregistration</p> <p>(under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)</p>	<p>EPA Reg. Number: 89711-1</p>	<p>Date of Issuance: DEC 17 2013</p>
	<p>Term of Issuance: Conditional</p>	
	<p>Name of Pesticide Product: Zap'Em All Purpose Insect Spray</p>	
<p>Name and Address of Registrant (include ZIP Code): H.L.E. Solutions 25441 Thompson Road Perrysburg, OH 43551</p>		
<p><b>Note:</b> Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.</p>		
<p>On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.</p> <p>This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:</p> <ol style="list-style-type: none"> <li>1. Submit and/or cite all data required for reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data. See the data requirements in DCI ID# GDCI-109701-1281 issued February 26, 2013, for permethrin and GDCI-109701-113 issued February 1, 2012 for permethrin. For information on the DCI's you may contact Ms. Avivah Jakob in the OPP Product Re-evaluation Division at 703- 305-1328 or by email at Jakob.Avivah@epa .gov</li> </ol>		
<p>Signature of Approving Official: Refer to page #2 Richard Gebken, Product Manager 10</p>	<p>Date: DEC 17 2013</p>	

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EPA Registration No. 89711-1


- 2. Revise the EPA Registration Number to read: EPA Registration Number 89711-1

Submit two copies of the final printed label for the record.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A copy of your label stamped "Accepted" is enclosed for your records. If you have any questions concerning this action, please contact Linda A. DeLuise of my team at (703) 305-5428.

Sincerely yours,



Richards Gebken  
Product Manager  
Insecticide Branch  
Registration Division 7504P

# ZAP' EM ALL PURPOSE INSECT SPRAY

- *For Commercial/Occupational Use*
- *]Water-Based*
- *Odorless*
- *Ready-To-Use and Dilutable Insecticide*
- *Makes up to 32 Gallons*
- *For Use Outdoors in Gardens, on Ornamental Trees, Shrubs and Flowers*
- *For Use Outdoors*
- *Will Not Stain Water-Safe Fabrics and Surfaces*
- *For Use Indoors and Outdoors on listed Crawling and Flying Insects*
- *For Use on Poultry to Control Lice and Mites*
- *For Control of Ticks which may cause Lyme disease on Premises*
- *Provides 60-Day (Two Months) Control of Cockroaches, Fleas and Stored Product Pests*
- *Multi-Purpose Bug Killer*
- *Easy to Use*
- *Use Indoors and Outdoors for Control of Cockroaches, Mosquitoes, Ants, Spiders, Flies, Moths, Fleas, Lice, Bedbugs, Crickets, Grasshoppers and other Listed Pests*
- *Non-Staining - No Sticky Residue*
- *Kills Crawling Insects, Including Cockroaches, Ants, Fire Ants, Fleas, Spiders, Ticks, Lice, Silverfish, Earwigs, Beetles, Bedbugs, Crickets and More!*
- *Kills Flying Insects, Including Flies, Moths, Mosquitoes, Gnats, Hornets, Wasps, Black Flies and More*
- *For Use on Mattresses & Furniture*
- *Lice Control Spray in a Non-Aerosol Bottle*
- *Lawn & Garden Insect Control*
- *For Livestock and Premise Use*
- *(lice control products only - NOT FOR USE ON HUMANS)*

**ACTIVE INGREDIENT:**

Permethrin<sup>1</sup> ..... 0.50%

**OTHER INGREDIENTS:** ..... 99.50%

100.00%

<sup>1</sup> Cis/trans ratio: min. 35% (+/-) cis and max. 65% (+/-) trans.

**EPA REG. NO. 89711-**

**EPA EST. NO.**

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

See rear panel for additional precautions.

**NET CONTENTS:**

ACCEPTED
DEC 17 2013
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 89711-1

<b>FIRST AID</b>	
<b>If on skin</b>	<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 for treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-222-1222 for emergency medical treatment information.	

### PRECAUTIONARY STATEMENTS

#### Hazards To Humans & Domestic Animals

**Caution:** Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Wear long-sleeved shirt and long pants, socks, shoes and gloves. Remove and wash contaminated clothing before reuse.

**Personal Protective Equipment:**

Mixers, loaders, applicators and other handlers must wear:

- long-sleeve shirt and long pants,
- chemical-resistant gloves made of any water proof material
- shoes plus socks

In addition to the above PPE, applicators using high-pressure hand-wand in an enclosed area must wear at least a NIOSH-approved respirator with a dust/mist filter with MSHA/NIOSH approval prefix TC-21C or any N, R, P or HE filter.

**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 material that have been drenched or heavily contaminated with this product. Do not reuse them.

**User Safety Recommendations:**

User should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

User should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

User 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 pesticide is extremely toxic to aquatic organisms, including fish and invertebrates. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. This pesticide is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area.

#### DIRECTIONS FOR USE

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

**USE RESTRICTIONS:**

- Do not breathe vapors or spray mist.
- Except when applying to livestock, do not enter or allow others to enter until sprays have dried.
- Except when applying to livestock, do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.
- Do not 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.
- May be applied in non-food/feed areas. Non-food/feed establishment areas are areas such as garbage rooms, lavatories, entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, mop closets and storage (after canning or bottling).
- In the home, all food processing surfaces and utensils should be covered during treatment or thoroughly washed before use.

- Remove or cover exposed food and drinking water before application.
- Do not contaminate animal feed or water during application.
- Do not apply as a broadcast or spot treatment to indoor surfaces at residential sites, including nurseries, daycare centers, schools, hospitals and nursing homes.
- Do not use in aircraft cabins.
- Do not use on electrical equipment or on surfaces that can be harmed or stained by water.
- Not for use on plants being grown for sale or other commercial use or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climate modification and being grown in interior landscapes, ornamental gardens or parks or on golf courses or lawns and grounds.
- Not for broadcast use.
- Not for use in outdoor or indoor residential misting systems.
- Remove pets, birds and cover any water inhabited by fish (such as aquariums and ornamental fish ponds) before application. Turn off aquarium filtering systems before spraying and wait approximately 15 minutes after application before turning the filter back on.
- 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.
- All outdoor applications if permitted elsewhere on this label, must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses: 1) Applications to soil or vegetation as listed on this label, around structures; 2) Applications to lawns, turf and other vegetation as listed on this label; 3) Applications to the side of a building up to a maximum height of 3 feet above grade; 4) Applications to underside of eaves, soffits, doors or windows permanently protected from rainfall by a covering, overhang, awning or other structure; 5) Applications around potential pest entry points into buildings when limited to a surface band not to exceed one inch in width; 6) Applications made through the use of a coarse, low pressure spray to only those portions of surfaces that are directly above bare soil, lawn, turf, mulch or other vegetation, as listed on this label and not over an impervious surface, drainage or other condition that could result in run-off into storm drains, drainage ditches, gutters or surface waters in order to control occasional invaders or aggregating pests.
- Do not water the treated area to the point of runoff.
- Do not make applications during rain.

**SHAKE WELL BEFORE USING**

**INDOOR APPLICATION**

Ready to use. Affix trigger, pump or other type sprayer to container for application. Or transfer to pump-up or other type of sprayer for application.

**SURFACE SPRAYING:**

For control of *Cockroaches, Waterbugs, Palmetto Bugs, Scorpions, Millipedes, Centipedes, Sowbugs, Pillbugs, Ants, Silverfish, Firebrats, Spiders, Crickets, Clover Mites, Cheese Mites, Granary Weevils, Rice Weevils, Confused Flour Beetles, Rust Red Flour Beetles, Drugstore Beetles, Meal Worms, Grain Mites and Cadelles*: Direct the spray into hiding places, cracks and crevices, and behind shelves and drawers. For *silverfish*, spray bookcases. For *ants*, spray trails, nests and points of entry.

To control *Carpet Beetles*: Spray edges of carpeting and under carpeting and rugs. Make localized application to floor and baseboards. Spray directly into cracks, crevices and infested areas of shelving.

To control *Bedbugs*: Spray mattresses lightly, particularly around tufts and seams. Take beds apart and spray in all joints. Treat baseboards, moldings and floors. Allow all treated articles to dry thoroughly before use.

To control *Fleas* (adults and larvae) and *Ticks*, including Ticks which may carry Lyme disease (adults and larvae): Thoroughly spray infested areas, pet beds, resting quarters, nearby cracks and crevices, along and behind baseboards, moldings, window and door frames, and entire areas of floor and floor covering. Fresh bedding should be placed in animal quarters following treatment. Allow to dry thoroughly before allowing pets to contact treated areas.

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

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

**ON LIVESTOCK:**

Ready to use. Affix trigger, pump or other type of sprayer to container for application. Or transfer to pump-up or other type of sprayer for application.

TO PROTECT CATTLE (BEEF AND DAIRY), GOATS, SHEEP, HOGS AND HORSES FROM *HORN FLIES, FACE FLIES, HOUSE FLIES, MOSQUITOES* AND *GNATS*: Apply a light mist sufficient to wet the surface of the hair. For face flies, spray face and head, but do not spray into eyes.

To control *Stable Flies, Horse Flies* and *Deer Flies*: Apply at a rate of 2 ounces per adult animal, sufficient to wet the hair thoroughly. Repeat treatment daily or at intervals necessary to give continued protection.

To control **Blood-sucking Lice**: Apply to the infested areas of the animal, using a stiff brush to get the spray to the base of the hair. Repeat every 3 weeks if required.

To control **Poultry Lice**: Spray roosts, walls and nests or cages thoroughly. This should be followed by spraying over the birds with a fine mist. To control **Bedbugs** and **Mites** in poultry houses: Spray crevices of roost poles, cracks in walls, and cracks in nests where the bedbugs and mites hide.

**OUTDOOR APPLICATION**

Ready to use. Affix trigger, pump or other type sprayer to container for application. Or transfer to pump-up or other type of sprayer for application.

TO CONTROL TICKS, INCLUDING TICKS WHICH MAY CARRY LYME DISEASE (PERIMETER TREATMENT): Ready-to-use. Use this product as a residual treatment to control **Ticks** including the **Deer Tick, Lone Star Tick, Brown Dog Tick, American Dog Tick and Western Black-legged Tick**. For each area listed below, apply until surface is wet (approximately 1 gal/750-1000 ft<sup>2</sup>).

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

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

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

PESTS ON THE OUTDOOR SURFACE OF BUILDINGS: To temporarily control **Houseflies, Mosquitoes, Cluster Flies, Gnats and Flying Moths**. For outdoor use only as an aid in reducing annoyance from these insects.

Dilute before using. Use clean sprayer. Carefully measure and mix 1 fluid ounce of this product and 24 fluid ounces of water. Using dilute mixture, spray pests on 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. Flush sprayer with clean water after each use.

FOR CONTROL OF ORNAMENTAL GARDEN INSECTS:

Ready to use. Affix trigger, pump or other type of sprayer to container for application. Or transfer to pump-up or other type of sprayer for application. [OR Insert canister into the fertigation system in the slot marked "insecticide". Attach hoses with clamps. Turn valve to on position. Product will automatically dispense at the desired application rate.]

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

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

Effective when used as directed against **Whiteflies, Aphids, Spider and Red Mites, Exposed Thrips, Lace Bugs, Japanese Beetles, Pavement Ants, Clover Mites and Armyworms**. When spraying plants, do not operate closer than 18 inches. Use sweeping motion. Be cautious about wetting tender foliage, young plants and new growth. Do not spray plants when temperatures exceed 90°F. Contact insects directly whenever possible.

ORNAMENTAL TREES AROUND THE HOME: Dilute before using. Use clean sprayer. Carefully measure and mix 1 fluid ounce of this product and 24 fluid ounces of water. [OR pour undiluted product into fertigation canister. Product will automatically dilute with the required amount of water.] Using dilute mixture, use sufficient spray to obtain full coverage of all foliage. Avoid heavy wetting. Use to control: **Ash Borer** on Ash; **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 Beetles** and **Elm Spanworms** on elms. Flush sprayer with clean water after each use.

FOR HOME VEGETABLE GARDENS: Dilute before using. Use clean sprayer. Carefully measure and mix 1 fluid ounce of this product and 24 fluid ounces of water. Spray upper and lower leaf surface as directed. Use sufficient spray to obtain full coverage of all foliage, but do not spray to the point of runoff. Apply no more than 13 ounces of dilute mixture over 100 linear feet of row (13 ounces of diluted mixture per 100 square feet.) Flush sprayer with clean water after each use.

VEGETABLE	TARGET PESTS	REMARKS
Asparagus (pre-harvest)	Cutworms asparagus beetle	Spray plants as needed to ensure uniform coverage. Apply every 7 days as needed. Do not make more than 4 applications per season. Can be applied up to 3 days prior to harvest.
Asparagus (post-harvest)	Larval stages of asparagus beetle	Treat fern or bush growth after spear harvest when insects are present.

	tarnished plant bugs lygus bugs and adult Japanese beetles	
Celery - see leafy vegetables		
Cole Crops: Broccoli, Brussels Sprouts, Cabbage, Cauliflower	Beet armyworm; diamond back moth; imported cabbage- worm; cabbage aphid, cabbage looper	Apply every 5 days as needed. Can be applied up one day prior to harvest. Do not make more than 10 applications on cabbage and 8 applications on the other cole crops.
Corn - see sweet corn		
Cucurbits: Balsam pear(bitter melon), Chinese waxgourd (Chinese melon), Citrus melon, cucumber, Gherkin, Edible gourds, Melons including hybrids such as cantaloupe, casaba, crenshaw, honeydew, honey balls, mango melon, muskmelon, and Persian melon, pumpkin, summer & winter squash, watermelon	Aphids, cabbage loopers, cucumber beetles (adults), cutworms, leafhop- pers, leafminers melonworms, pickleworms, plant bugs and squash bugs.	Apply every 7 days as needed. Spray plants to ensure uniform coverage. Do not make more than 8 applications per crop. Can be applied up to the day of harvest.
Eggplant beetles, vegetable leaf miners	Colorado potato	Apply every 7 days as needed. Spray plants to ensure uniform coverage. Do not make more than 16 applications. Can be applied up to 3 days prior to harvest.
Horseradish	Imported crucifer weevils	Apply every 10 days as needed. Do not make more than 3 foliar applications. Can be applied up to 22 days prior to harvest.
Leafy Vegetables: amaranth, arrugula, celery, celtuce, chervil, corn salad, chrysanthemum (edible-leaved and garland), cress (garden and upland), dandelion, dick, endive, fennel, lettuce (head & leaf), orach, parsley, purslane (garden and winter), rhubarb, spinach, Swiss chard	Alfalfa loopers, aphids, beet army- worms, cabbage loopers, corn earworms, cutworms, European corn borers, fall armyworm, green cloverworms, southern armyworms, tobacco budworms, vegetable leaf miners.	Spray every 7 days as needed. Do not make more than 7 applications per crop. Can be applied up to 1 day prior to harvest.
Melons - see Cucurbits		
Potatoes	Beet armyworms, Colorado potato beetles, potato beetles, potato leafhoppers, potato aphids, potato tuberworms, cabbage loopers, cutworms, European corn borers, potato psyllids, tarnished plant bugs	Spray plants every 10 days as needed. Do not make more than 12 applications. Can be applied up to 7 days prior to harvest.

Peppers	Vegetable leafminers, cabbage loopers, flea beetles, corn earworms, pepper weevils, European corn borers	Spray plants every 5 days as needed. Do not make more than 8 applications. Can be applied up to 3 days prior to harvest.
Sweet Corn	Corn earworms, European corn borers, fall armyworms, southern armyworms	Spray plants every 3 days as needed. Do not make more than 6 applications per season. Can be applied up to 1 day prior to harvest.
Tomatoes (Do not spray on cherry tomatoes and varieties yielding tomatoes less than one inch in diameter)	Beet and southern armyworms, tomato pinworms, tomato fruitworms, hornworms, granulate cutworms, Colorado potato beetles, cabbage loopers	Spray plants every 7 days as needed. Spray plants to ensure uniform coverage. Do not make more than 6 applications per season. Can be applied up to date of harvest.

HOME OWNER GROWN FRUIT AND NUT TREES: Dilute before using. Use clean sprayer. Carefully measure and mix 1 fluid ounce of this product and 24 fluid ounces of water. Apply dilute mixture to trees until foliage is dripping wet. Make sure to spray the undersides of leaves and into dense foliage. Flush sprayer with clean water after each use.

Trees (Fruit or Nut)	Target Pest(s)	Remarks
Almonds	Navel orange worms, peach twig borers	Apply every 10 days as needed when insects appear. Do not make more than 5 applications per season. Can be applied up to 7 days prior to harvest.
Apples	plum curculio, red-banded leafrollers, rosy apple aphids, spotted tentiform leafminers, tarnished bugs, white apple leafhoppers, oblique-banded leafrollers, green fruitworms.	Apply every 10 days as needed when insects appear. Do not make more than 3 applications per season.
Peaches	Lesser peachtree borers, peach twig borers, plum curculio, plant bugs, green fruit worms, Oriental fruit moths	Apply every 10 days as needed when insects appear. Do not apply within 7 days of harvest. Do not make more than 8 applications per season.
Pears	pear psylla, green fruitworms and codling moths.	Apply every 10 days as needed. Do not apply more than 3 applications per season. Can be applied up to 14 days prior to harvest.

**STORAGE AND DISPOSAL**

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

**Pesticide Storage:** Store in a cool, dry area away from children and pets.

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

**Container Handling:** Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) 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, then offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

**NOTICE:** To the extent consistent with applicable law, buyer assumes all responsibility for safety and use not in accordance with directions.

H.L.E. Solutions  
25441 Thompson Road  
Perrysburg, OH 43551