

Hi-Yield®

38

INSECTICIDE

- Use to Control Insect Pests Outdoors, on Ornamentals, Lawns, Trees, Shrubs, and Vines
- Soil Insect and Termite Killer
- Kills Home-Invading Pests (Outdoors)

Termiticide Use: For Outdoor, Homeowner, Post-Construction Use Only

ACTIVE INGREDIENT:

Permethrin*36.8%

OTHER INGREDIENTS:63.2%

TOTAL:100.0%

**cis/trans* ratio: Max 55% ($\pm$) *cis* and
min. 45% ($\pm$) *trans*

**KEEP OUT OF REACH
OF CHILDREN**

CAUTION

**SEE BACK PANEL AND LABEL BOOKLET
FOR ADDITIONAL PRECAUTIONARY
STATEMENT AND DIRECTIONS FOR USE**

NET CONTENTS ONE PINT (16 FL. OZ. / 473 ML)

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FIRST AID

If Swallowed	• Immediately call a poison control center or doctor. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Have the person sip a glass of water if able to swallow. • Do not give anything by mouth to an unconscious person.
If Inhaled	• Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.
If On Skin or Clothing	• Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If in Eyes	• Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.

NOTE TO PHYSICIAN: This product contains petroleum distillates. Vomiting may cause aspiration pneumonia. Consideration should be given to gastric lavage with an endotracheal tube in place. Treatment is controlled by removal of exposure followed by symptomatic and supportive care. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information regarding medical emergencies or pesticide incidents, call 1-888-740-8712.

Manufactured By:



230 FM 87
BONHAM, TEXAS 75418
EPA Reg. No. 7401-507
EPA Est. No. 7401-TX-01
Product Questions?
855-270-4776



PEEL FROM CORNER OF BOOKLET

Manufactured By:



230 FM 87 • BONHAM, TEXAS 75418

EPA Reg. No. 7401-507

EPA Est. No. 7401-TX-01

Product Questions? 855-270-4776

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PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed or inhaled. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Avoid breathing spray mist. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.



People and pets may enter treated area after application has dried.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

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

- Long-sleeved shirt, loaders, and long pants;
- Shoes plus socks;
- Chemical-resistant gloves for all handlers except for applicators using motorized ground equipment, pilots, and flaggers,
- Chemical-resistant apron for mixers/loaders, persons cleaning equipment, and persons exposed to the concentrate and for handlers performing animal dip applicators.

USER SAFETY RECOMMENDATIONS

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

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

Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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

Discard clothing and other absorbent materials that have been drenched (except as required by directions for use) or heavily contaminated with this product's concentrate. Do not reuse them.

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 runoff 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 runoff to water bodies or drainage systems.

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.

PHYSICAL OR CHEMICAL HAZARDS

Combustible. Do not use or store near heat or open flame.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Failure to follow the directions for use and precautions on this label may result in poor pest control, plant injury or illegal residues.

For outdoor use only

USE RESTRICTIONS:

- Do not allow to enter indoor or outdoor drains. No permita la entrada a desagües internos o externos.
- All outdoor spray applications must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses:
 1. Application to pervious surfaces such as soil, lawn, turf, and other vegetation;
 2. Perimeter band treatments of 7 feet wide or less from the base of a man-made structure to pervious surfaces (e.g., soil, mulch, or lawn);
 3. Applications to underside of eaves, soffits, doors, or windows permanently protected from rainfall by a covering, overhang, awning, or other structure;
 4. Applications around potential exterior pest entry points into man-made structures such as doorways and windows, when limited to a band not to exceed one inch;
 5. Applications to vertical surfaces (such as the side of a man-made structure) directly above impervious surfaces (e.g., driveways, sidewalks, etc.), up to 2 feet above ground level;
 6. Applications to vertical surfaces directly above pervious surfaces, such as soil, lawn, turf, mulch or other vegetation) only if the pervious surface does not drain into ditches, storm drains, gutters, or surface waters.
- Spot treatments must not exceed two square feet in size.

DIRECTIONS FOR USE (Continued)

- Do not spray the product into fish pools, ponds, streams, or lakes. Do not apply directly to sewers or storm drains, or to any area like a drain or gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur.
- Do not apply or irrigate to the point of runoff.
- Do not make applications during rain. Avoid making applications when rainfall is expected before the product has sufficient time to dry (minimum 4 hours). Rainfall within 24 hours after application may cause unintended runoff of pesticide application.
- Do not apply when the wind speed is greater than 15 mph.

GENERAL INFORMATION

This product is non-staining to most home siding depending on age and cleanliness. However, before using in areas where the spray may contact home siding (vinyl siding, in particular), test in an inconspicuous area and recheck in a few hours. Do not use if any staining is observed.

This product may be used to control insect pests outdoors, on ornamentals, lawns, trees, shrubs, and vines in landscape areas, as a perimeter treatment around residential buildings. **Hi-Yield® 38+ Insecticide** may also be used to control home-invading insects as a residual spray on outside surfaces, such as, walks, garbage areas, window frames, doorways, porches, and patios. Not for use on plants being grown for commercial sales, or plants grown for seed production or sod farms and golf course turf, or in greenhouses or nurseries.

Application Instructions: **Hi-Yield® 38+ Insecticide** mixes readily with water and is specifically packaged for residential use as a diluted spray. Use a clean sprayer, such as a tank type or hose-end sprayer, to mix and apply the proper amount of concentrate with the desired volume of water. For perimeter and lawn applications, measure the area to be treated to determine the application volume. For trees, shrubs and flowers apply as a thorough cover spray until foliage is wet. Refer to **Specific Application Instructions** in the recommended rate Tables for additional instructions.

GENERAL INFORMATION (Continued)

General Precautions and Restrictions: Do not apply this product in a way that will contact others either directly or through drift. Do not allow adults, children, or pets to enter the treated area until sprays have dried. Remove pets, birds, and cover fish aquariums before spraying. Not for use in outdoor residential misting systems.

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) Applicators to building foundations, up to a maximum height of 3 feet.

Do not water the treated area to the point of runoff.

Do not make applications during rain.

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.

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.

HOME PESTS OUTDOOR USE ONLY

MIXING INSTRUCTIONS

Mix 1.6 fl. oz. (3¼ Tablespoons) of **Hi-Yield® 38+ Insecticide** per 1 gallon of spray solution to make a 0.5% spray emulsion [1 fl. oz. = 2 Tablespoons (T) = 6 teaspoons (tsp)]. Do not use utensils such as spoons and measuring cups for food purposes after use with pesticides.

HOME PESTS OUTDOOR USE ONLY (Continued)

HOW TO APPLY

Spot Treatment

- Apply a 0.5% emulsion as a pin stream low-pressure spray or as a paint-on application with a paintbrush.
- Treat where pests are found or entry points of the structure such as window frames, doorways, porches, patios and foundation.
- Spot-treatment may also be made to garages, garbage cans, and garbage areas.
- DO NOT apply indoors (including crawl spaces).

Perimeter Application

- Spray a 6 to 8 foot wide band of soil around the perimeter of the house. Treat the foundation wall to a height of 2 to 3 feet.
- Use a spray volume of 2 to 10 gallons of 0.5% emulsion per 1,000 sq. feet. If mulch or debris is present, a higher volume application rate may be needed to ensure adequate coverage.
- Note: residential control will vary depending on exposure of the treated area to weathering conditions (temperature, sunlight, and moisture). Retreat on a monthly schedule while insects are likely to be active.

HOME PESTS OUTDOOR USE ONLY (Continued)

Wood Destroying Pests

- **Localized Areas Outdoors:** For the control of insects such as termites, bees, carpenter ants and wood infesting beetles in localized above-ground areas of infested wood around structures, apply a 0.5% emulsion to voids and galleries in damaged wood and in spaces between wooden members of a structure and between wood and foundations where wood is vulnerable. Apply either as a spray or paint-on application. For termites the purpose or application is to destroy workers or winged reproductive forms, which may be present at the time of treatment. This product is not designed for preventive use and should only be applied when pests appear. This application is not a substitute for soil or foundation treatment. For active infestations inside a structure, consult a licensed Pest Control Service.
- Use a hose-end sprayer or sprinkling can to deliver a coarse drenching spray to treat stored lumber or woodpiles. Stored wood can be used for lumber one month after treatment. Do not apply inside structures.
- Repeat treatment as necessary but not more frequently than once a month. For active termite infestation consult a professional Pest Control Applicator.
- For crack and crevice applications: Treat surfaces to ensure thorough coverage but avoid runoff. To treat insects harbored in voids and cracks-and-crevices, applications must be made in such a manner to limit dripping and avoid runoff onto untreated structural surfaces and plants

HOW TO APPLY

Mound Drench Treatment (Ant and Fire Ant Mounds in Lawns) Use a sprinkling can. Mix 1.6 fl. oz. (3¼ Tablespoons) of **Hi-Yield® 38+ Insecticide** per 1 gallon of spray solution to make a 0.5% spray emulsion [1 fl. oz. = 2 Tablespoons (T) = 6 Teaspoons (tsp.)]. For large ant mounds, such as Fire Ant mounds, apply 1 to 2 gallons of a 0.5% emulsion to each mound area including a 4 foot diameter circle around the mound. Apply to smaller mounds until the mound is completely saturated. Use higher water volume for mounds larger than 12".

Lawn Broadcast Application

- Apply using a hose-end or pressure type sprayer to deliver a coarse spray of between 4 to 25 gallons of emulsion per 1,000 sq. ft. of lawn.
- Use the higher recommended label rate for heavy pest infestations.
- Use sufficient volume to uniformly cover plant surface.

Note: High volume of water should be used when situations of thick thatch or dense sod exist, or in and or drought conditions.

WHEN TO APPLY

- For best results treat in early morning or late evening hours, but not in the heat of the day.
- Spray evenly over the lawn when insects first appear.
- Repeat applications as necessary but not more frequently than every 10-14 days. Do not apply more than 1.6 fl. oz./1,000 sq. ft. per year.

RECOMMENDED APPLICATION RATES FOR LAWN

SITE	PEST*	RATE	SPECIFIC APPLICATION INSTRUCTIONS
Lawns, residential including but not limited to St. Augustine, Bentgrass, Fescues, Buffalograss, Bahiagrass, Bluegrass, Perennial Ryegrass, and Centipedegrass	Ants, Armyworms, Billbugs, Chiggers, Chinch bugs, Crickets, Cutworms, Earwigs, Fruit Flea, Fleas, Leafhoppers, Millipedes, Mole Crickets, Sod Webworm, Sowbugs, Ticks (including Brown Dog, Tick, and Deer Tick, Western Blacklegged, Ticks known to transport Lyme disease and Rocky Mountain Spotted Fever)	0.4 to 0.8 fl. oz. (2½ to 5 tsp) per 1,000 sq. ft.	Apply using 4-25 gallons of spray volume/1,000 sq. ft. of lawn. Use higher volumes on St. Augustine, Buffalograss, Bermuda and Bahiagrass lawns. Use the higher rate for fast knockdown and increased residual control. Dense and excessive (greater than 3 inches) lawn height and arid conditions may require higher volume application rates. Repeat applications may be necessary (10 to 14 day interval) to control heavy infestations during peak periods of insect feeding. Do not exceed a total of 1.6 fl. oz./1,000 sq. ft. per year (i.e. four (4) applications at the lower rate or two (2) applications at the higher rate).

* For additional pests consult the list of pests under Outdoor Pests Controlled by **Hi-Yield® 38+ Insecticide**

HOME-INVADING PESTS (OUTDOOR USE ONLY)	
PEST	SPECIFIC APPLICATION INSTRUCTIONS
Ants (Incl. Mounds), Armyworm, Bark Beetles, Bees, Beetles, Borers, Boxelder Bugs, Carpenter Ants, Carpenter Bees, Centipedes, Chinch bugs, Cockroaches, Cockroaches (Asian), Crickets, Earwigs, Elm Leaf Beetle, Fire Ants (Incl. Mounds), Fleas, Flies, Firebrats, Ground Beetles, Gypsy Moths (adults & caterpillars), Millipedes, Mole Crickets, Pill Bugs, Scorpions, Silverfish, Sod Webworm, Sowbugs, Spiders, Ticks (Including Deer Tick, Western Black-legged Tick known to transport Lyme disease and Rocky Mountain Spotted Fever), Wasps	Boxelder Bugs, Elm Leaf Beetles and Gypsy Moth Caterpillars: Spray tree trunks, building siding or wherever pests congregate. Avoid excess application, dampen surfaces thoroughly, but do not let runoff occur. Borers and Bark Beetles: To prevent infestation of ornamental trees and wood shrubs, spray the bark to the point of saturation, but do not let runoff occur. Repeat treatment every 21 days during early spring until mid-summer. Carpenter Bees: Apply as a pin stream, as a fine/coarse low pressure spray (20 psi or less) as a spot treatment. Fire Ants (mound drench): Apply 1 to 2 gallons of emulsion to each mound area by sprinkling the mound until it is wet and treat a 4-foot diameter circle around the mound. Use higher volume for mounds larger than 12 inches. For best results, apply in cool weather, such as in early morning or late evening hours, but not in the heat of the day. Scorpions: Remove accumulations of lumber, firewood and other materials, which serve as harborage sites, and treat beneath and adjacent to infested sites.

LAWN PESTS

Hi-Yield® 38+ Insecticide can be applied to lawns adjacent to or around private homes, duplexes, townhouses, condominiums, house trailers, apartment complexes, carports, garages, fence lines, storage sheds, barns, and other residential areas where pests congregate.

MIXING INSTRUCTIONS

Prepare an emulsion by mixing 0.4 to 0.8 fl. oz. (2½ to 5 teaspoons) of **Hi-Yield® 38+ Insecticide** in sufficient volume of water to cover 1,000 sq. ft. (approximately 4 to 25 gallons of water). [1 fluid oz. = 2 Tablespoons (T) = 6 teaspoons (tsp.)]. Do not use utensils such as spoons and measuring cups for food purposes after use with pesticides.

ORNAMENTAL PESTS

Mixing Instructions

Mix 0.04 to 0.08 fl. oz. (= 1/8 to 1/4 teaspoon = 1-2 ml) of **Hi-Yield® 38+ Insecticide** in 1 gallon of water for general pest control. Refer to the **Ornamental Application Rate Table** for additional mixing instructions and for specific directions for stem-infesting beetles. [1 fl. oz. = 2 Tablespoons (T) = 6 teaspoons (tsp.) = 29.6 ml]. Do not use utensils such as spoons and measuring cups for food purposes after use with pesticides.

HOW TO APPLY

Ornamentals (Foliage and Flowering Plants)

- Apply using a hose-end or pressure type sprayer to deliver a coarse spray. Apply thoroughly to stem and foliage.
- Use the higher recommended label rate ($\frac{1}{4}$ tsp. per gal of water) for heavy pest infestations. Note: Higher volumes of water should be used when situations of dense foliage exists, or in arid or drought conditions.

WHEN TO APPLY

- For best results treat in early morning or late evening hours, but not in the heat of the day.
- Spray evenly over the lawn when insects first appear.
- To prevent insect reinfestation repeat treatment as necessary but not more frequently than once every 14 days.

**RECOMMENDED APPLICATION RATES
FOR USE ON ORNAMENTALS**

SITE	PEST	RATE	SPECIFIC APPLICATION INSTRUCTIONS
Ornamental foliage and flowering plants (incl. Conifers, woody and herbaceous non-edible ornamentals.)	Ants, Aphids, Bagworm, Beet Armyworms, Cabbage Looper, Cankerworms, Citrus Thrips, Coneworms (incl. Web) and Seed bugs, Fungus Gnat, Gypsy Moth Caterpillars, Heliothis spp, Japanese Beetles, Lace Bug, Leaf Feeding Caterpillars, Leaffooted Bugs, Leafminers, Leafhoppers, Leafrollers, Lygus Bugs, Mealybugs, Mosquitoes, Nantucket Pine Tip Moth, Oblique Leafroller, Pine Sawflies, Plant Bugs, Root Weevils (Adult), Rose Chafer, Rosy Aphid, Spotted Leafminer, Stink Bugs, Tarnished Plant Bug, Tent Caterpillars, Webworms, Whiteflies, Zimmerman Pine Moth ¹	0.4 to 0.8 fl. oz. (1/8 to 1/4 tsp.) (1 to 2 ml) per gal.	Note: Direct application to blooms may cause browning of petals. Marginal leaf burn may occur on Salvia, Dieffenbachia and Ptarmica Fern. Mosquitoes coming to rest on treated plants will be killed for varying periods of time after treatment, depending on exposure of treated areas to weathering conditions. ¹ To control Webbing Coneworms make first application just prior to peak pollen flight. To control other Coneworms and Seed Bugs, make application 30 days prior to flower closure.

TERMITE CONTROL (SUBTERRANEAN)

FOR USE ONLY AROUND EXISTING STRUCTURES. DO NOT USE INSIDE DWELLING. NOT FOR PRECONSTRUCTION USE.

Hi-Yield® 38+ Insecticide may be used to establish an exterior soil barrier against termites around structures. The chemical concentrate is mixed as an emulsion and adequately dispersed in the soil to provide a continuous exterior barrier between wood in the structure and the termite colonies in the soil.

NOTE: A complete termite barrier may require treatment with other EPA registered products to the inside perimeter of the foundation and to other interior critical areas. For these areas, and if termites are found inside of the home, consult a Licensed Professional Pest Control Service for treatment.

PRECAUTION: When treating adjacent to an existing structure, the applicator must check the area to be treated, and immediately adjacent areas of the structure, for visible and accessible cracks and holes to prevent any leaks or significant exposures to persons occupying the structures. People present or residing in the structure during application must be advised to remove their pets and themselves from the structure if they see any signs of leakage. After application, the applicator is required to check for leaks. All leaks resulting in the deposition of termiticide in locations other than those prescribed on this label must be cleaned up prior to leaving the application site. Do not allow people or pets to contact contaminated areas or to reoccupy contaminated areas of the structure until the cleanup is completed.

Do not treat soil that is water saturated or frozen in any conditions where run-off or movement from treatment area (site) is likely to occur.

MIXING INSTRUCTIONS

Using a sprinkler can add 3.2 fl. oz. (6.5 tablespoons) to 2 gallons of water (to make a 0.5% emulsion) for each 5 linear feet of treatment to be provided [1 fl. oz. = 2 tablespoons (T) = 6 teaspoons (tsp.)]. Do not use utensils such as spoons and measuring cups for food purposes after use with pesticides.

HOW TO APPLY

Trench Treatment: Remove all wood debris and wood forms. Around piers, chimney bases, and along foundations of poured concrete, dig a trench 8 inches wide and 4 inches deep. If footing is more than 12 inches deep make holes with a steel rod or pipe one foot apart that extend from the bottom of the trench to the top of the footing. Make holes closer in hard packed clay soils. **Never dig below the top of the footing.**

Apply a 0.5% emulsion at a rate of 4 gallons per 10 linear feet per foot of depth. Apply half of the emulsion when backfilling the trench. (One quart of **Hi-Yield® 38+ Insecticide** will make 20 gallons of 0.5% emulsion and treat 50 linear feet.)

Precaution: DO NOT treat structures that contain cisterns or wells. Soil in the vicinity of wells, cisterns or ponds or structures with sump pumps or French drains should not be treated. For those situations, contact your County Cooperative Extension Agent or consult a commercial pest control service.

FENCE POSTS

Pre-installation: Using a sprinkler can pour ½ gallon of 0.5% spray emulsion into the fence post hole and add another ½ gallon in mixture with the soil when filling the hole so that all the soil is treated.

Post-installation: Installed poles and posts may be treated by first digging a trench around the post and applying 1 gallon of 0.5% emulsion per one foot depth of trench for posts less than 6 inches in diameter. For larger diameter posts increase the applicator rate to 4 gallons for each 10 linear feet of trench and per ft. of depth.

WHEN TO RE-APPLY

Retreatment for subterranean termites can only be performed if there is clear evidence of reinfestation or disruption of the barrier due to construction, excavation, or landscaping and/or evidence of the breakdown of the termiticide barrier in the soil. These vulnerable or reinfested areas may be retreated in accordance with application techniques described in this product's labeling. The timing and type of these retreatments will vary, depending on factors such as termite pressure, soil types, soil conditions and other factors, which may reduce the effectiveness of the barrier.

Annual retreatment of the structure is prohibited unless there is clear evidence that reinfestation or barrier disruption has occurred.

IMPORTANT! DO NOT use on vegetables or food crops. DO NOT treat pets with this product. DO NOT spray inside dwellings. DO NOT treat soil that is water saturated or frozen or in any conditions where run-off or movement from the treatment area is likely to occur. DO NOT apply when wind velocity favors drift.

NOTICE: Buyer assumes all risks of use, storage or handling of this product not in accordance with directions.

STORAGE AND DISPOSAL

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

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

PESTICIDE STORAGE:

Store in original containers only. Store in a cool, dry place, preferably in a locked storage area and avoid excessive heat. Carefully open containers. After partial use replace lid and close tightly. Do not put concentrate or dilute material into food or drink containers. Store away from food and pet food.

PESTICIDE DISPOSAL AND CONTAINER HANDLING:

Non-refillable container. Do not reuse or refill this container.

If empty: Place in trash or offer for recycling if available.

If partly filled: Do not pour or dispose down the drain or sewer. Call your local solid waste agency for disposal instructions.

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