



71581-7

07/17/2002

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Please read instructions on reverse before completing form.

Form Approved, OMB No. 2070-0060, Approval expires 2-28-95



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 71581-7	2. EPA Product Manager LaRocca	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) X-Lance	PM# 13	
5. Name and Address of Applicant (Include ZIP Code) ISK Biocides, Inc. 416 E. Brooks Rd. Memphis, TN 38109 <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: NOTIFICATION EPA Reg. No. _____ Product Name _____ JUL 17 2002	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input checked="" 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.)

Change primary brand name from X-Lance to X-Lance 2

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
<i>Certification must be submitted</i>		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container	<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/>	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled				<input type="checkbox"/> Other _____	

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Gail Early	Title Regulatory Specialist	Telephone No. (Include Area Code) 901-344-5316
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>Gail Early</i>	3. Title Regulatory Specialist	
4. Typed Name Gail Early	5. Date June 12, 2002	

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NOTIFICATION

JUL 17 2002

X-Lance[®]2 } *

CONCENTRATE
For Outdoor Homeowner Use Only

(Control Statement)

(Picture of Insects)

Active Ingredient	
Permethrin*	36.8%
Other Ingredients**	63.2%
TOTAL	100.0%

*cis/trans ratio: Max. 42% (±) cis and min. 58% (±) trans
** Contains petroleum distillates

KEEP OUT OF REACH OF CHILDREN
CAUTION See back panel booklet for Additional Precautionary Statements

EPA Reg. No. 71581-7
EPA Est. No. 1022-TN-1

Made in USA.

Net Contents ____ 5 gallon ____ 55 gallon

[®] X-Lance is a registered trademark of ISK Americas Incorporated.

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 or plant injury.

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. X-Lance 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 sale, or plants grown for seed production or sod farms and golf course turf, or in greenhouses or nurseries.

Application Instructions: X-Lance 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.

HOME-INVADING PESTS (OUTDOOR USE ONLY)

MIXING INSTRUCTIONS

Mix 1.6 fluid oz. (3 ¼ Tablespoons) of X-Lance Concentrate per 1 gallon of spray solution to make a 0.5% spray emulsion [1 fluid oz. = 2 Tablespoons (T) = 6 teaspoons (tsp)]. Do not use utensils such as spoons and measuring cups after use with pesticides.

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 1000 square feet. If mulch or debris is present, a higher volume application rate may be needed to ensure adequate coverage.
- Note: residual control will vary depending on exposure of the treated area to weathering conditions (temperature, sunlight, moisture). Retreat on a monthly schedule while insects are likely to be active.

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 of application is to destroy workers or winged reproductive forms, which may be present at the time of treatment. This product is not designed for preventative use and should only be applied when pests appear. This application is not a substitute for soil or foundation treatment.
- Use a hose-end sprayer or sprinkling can to deliver a coarse drenching spray to treat stored lumber or wood piles. 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.

HOME-INVADING PESTS (OUTDOOR USE ONLY)	
PEST	SPECIFIC APPLICATION INSTRUCTIONS
Ants (including mounds)	Boxelder Bugs; Elm Leaf Beetles and Gypsy Moth Caterpillars: Spray tree trunks, building siding, or wherever pests congregate. Avoid excessive application. Dampen surface thoroughly, but do not let runoff occur.
Armyworm	
Bark Beetles	Borers and Bark Beetles: To prevent infestation of ornamental trees and woody 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.
Bees	
Beetles	
Borers	
Boxelder Bugs	Carpenter Bees: Apply as a pin stream, as a fine/coarse low pressure spray (20 psi or less) as a spot treatment.
Carpenter Ants	
Carpenter Bees	Fire Ants (mound drench): Apply 1 or 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.
Centipedes	
Chinchbugs	
Cockroaches	
Cockroaches (Asian)	
Crickets	
Earwigs	
Elm Leaf	
Fire Ants (Incl. mounds)	
Fleas	
Flies	Scorpions: Remove accumulations of lumber, firewood, and other materials which serve as harborage sites and treat beneath and adjacent to infested sites.
Firebrats	
Ground Beetles	
Gypsy Moths (adults & caterpillars)	
Millipedes	
Mole Crickets	
Pill Bugs	
Scorpions	
Silverfish	
Sod Webworm	
Sowbugs	Ticks (including Deer Tick, Western Black-legged Tick known to transport Lyme disease and Rocky Mountain Spotted Fever)
Spiders	
Wasps	

LAWN PESTS

X-Lance 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 fluid oz. (2 ½ to 5 teaspoons) of X-Lance Concentrate in sufficient volume of water to cover 1000 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.

HOW TO APPLY

Mound Drench Treatment (Ant and Fire Ant Mounds in Lawns)

Use a sprinkling can. Mix 1.6 fluid oz. (3 ¼ Tablespoons) of X-Lance Concentrate per 1 gallon of spray solution to make a 0.5% spray emulsion [1 fluid oz. = 2 Tablespoons (T) = 6 teaspoons (tsp)]. For large ant mounds, such as Fire Ant mounds, apply 1 – 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: Higher volume of water should be used when situations of thick thatch or dense sod exist, 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.
- Repeat applications as necessary but not more frequently than every 10 – 14 days. Do not apply more than 1.6 fl. oz. / 1000 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 Bilbugs Chiggers Chinchbugs Crickets Cutworms Earwigs Fruit Flies Fleas Leafhoppers Millipedes Mole Crickets Sod Webworm Sowbugs Ticks (including Brown Dog Tick and Deer Tick, Western Black-legged Ticks known to transport Lyme disease and Rocky Mountain Spotted Fever) For additional pests consult the list of pests under Outdoor Pests Controlled by X-Lance.	0.4 to 0.8 Fluid Ounces (2 ½ to 5 tsp) per 1000 sq. ft.	Apply using 4 – 25 gallons of spray volume / 1000 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. / 1000 sq. ft. per year (i.e. four (4) applications at the lower rate or two (2) applications at the higher rate.

ORNAMENTAL PESTS

MIXING INSTRUCTIONS

Mix 0.04 to 0.08 fluid oz. (=1/8 to 1/4 teaspoons = 1-2 ml) of X-Lance Concentrate 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 fluid 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 (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 IN ORNAMENTALS			
SITE	PEST	RATE	SPECIFIC APPLICATION INSTRUCTIONS
Ornamental foliage and flowering plants (including Conifers, woody and herbaceous non-edible ornamentals.	Ants Aphids Bagworm Beet Armyworm Cabbage Looper Cankerworms Citrus Thrips Coneworm (incl. web) ¹ and Seed bugs Fungus Gnat Gypsy Moth Caterpillars Heliothis spp Japanese Beetles Lace Bug Leaf Feeding Caterpillars Leaffooted Bugs Leafminers Leafhoppers Leaf rollers Lygus Bugs Mealybugs Mosquitoes Nantucket Pine Tip Moth Oblique Leafroller Pine Sawflies Plant Bugs Root Weevils (Adult) Rosy Aphid Rose Chafer Spotted Leafminer Stink Bugs Tarnished Plant Bug Tent Caterpillars Webworms Whiteflies Zimmerman Pine Moth ¹	0.04 to 0.08 Fluid Ounces (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 Pteris 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 Coneworm make first application just prior to peak pollen flight. To control other Coneworms and Seed Bugs, make application 30 days prior to flower closure.
	Bark Beetles and Boring Insects, (including but not limited to: Ash Borer, Bronze Birch Borer, Rhododendron Borer, Elm Bark Beetles and Turpentine Beetles	0.3 to 0.6 fluid ounces (2 to 4 tsp) per gal.	Stem-Infesting Beetles: Treat lower branches and trunk prior to adult emergency. Complete, uniform coverage is needed for best control. A repeat application may be necessary on a 3 to 4 week interval to prevent severe tree stem damage.

TERMITE CONTROL (SUBTERRANEAN)

X-Lance 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.

For use only around existing structures. Do not use inside dwelling. Not for pre-construction use.

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 structure. 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 sign 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 clean-up is completed. For those situations, contact your County Cooperative Extension Agent or consult a commercial pest control service.

MIXING INSTRUCTIONS

Using a sprinkler can add 3.2 fluid 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 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.

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 6 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 foot of depth. Apply half of the emulsion when backfilling the trench. (One quart of X-Lance Concentrate 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 application 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 the 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.

Master Label: Container Back Panel

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 (site) is likely to occur. DO NOT apply when wind velocity favors drift.

STORAGE AND DISPOSAL

STORAGE: Keep out of the reach of children or animals. 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.

DISPOSAL: If empty: Do not reuse this container. Do not rinse unless required for recycling. Place in trash. If partly filled: Call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Unless otherwise instructed, place in trash. Never pour unused product down the drain or on the ground.

PRECAUTIONARY STATEMENTS

**HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)
CAUTION**

Harmful if swallowed, inhaled or absorbed through the skin. Avoid contact with skin, eyes or clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

Keep children and pets off treated grass until dry.

FIRST AID:	
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"> ▪ Immediately call a poison control center or doctor. ▪ Do not induce vomiting unless told to do so by a poison control center or doctor. ▪ Do not give any liquid to the person. ▪ Do not give anything by mouth to an unconscious person.
IF INHALED:	<ul style="list-style-type: none"> ▪ Move person to fresh air. ▪ If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. ▪ Call a poison control center or doctor for further treatment advice.
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"> ▪ Take off contaminated clothing. ▪ Rinse skin immediately with plenty of water for 15 – 20 minutes. ▪ Call a poison control center or doctor for treatment advice.
IF IN EYES:	<ul style="list-style-type: none"> ▪ Hold eye open and rinse slowly and gently with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. ▪ Call a poison control center or doctor for treatment advice.
FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE, CALL CHEMTREC AT 1-800-424-9300	

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 removal of exposure followed by symptomatic and supportive care.

Environmental Hazards: This product is highly toxic to bees exposed to direct treatment or residues on crops or weeds. Do not apply this product or allow it to drift to crops or weeds on which bees are actively foraging.

This product is extremely toxic to fish and aquatic invertebrates. Use with care when applying to areas adjacent to any body of water. Do not apply directly to water. Do not apply within 25 feet of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries and commercial fish ponds. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash waters.

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PHYSICAL OR CHEMICAL HAZARDS: Do not use or store near heat or open flame.

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

Manufactured for:

ISK Biocides, Inc.
416 East Brooks Road
Memphis, TN 38109

List of User Friendly Statements to be added to Final Print Label:

Brand Extensions

- HG
- H&G
- Lawn
- Outdoor

Use Statements

- Insecticide
- Insecticide / Termiticide
- Termiticide
- Lawn & Ornamental
- Soil Insect & Termite Killer
- Fire Ant Killer
- Ant & Roach Killer
- Outdoor Perimeter
- For Outdoor Residential Use Only

Control Statements

- Kills Ticks that may cause Lyme disease
- Kills Home Invading Pests (Outdoor)
- Kills Named Insects
- An easy to apply product to control Home Invading and Lawn Insects
- An easy to apply product to control wood invading insects
- Termiticide Formuation for Homeowner Use (Outdoor Use Only)
- Termite Insecticide (Outdoor Use Only)
- For Homeowner Use (Outdoor Use Only)
- Controls Wood-Destroying Insects

Icons / Pictures

- (Icon of People)
- (Icon of Sprinkling Can)
- (Icon of Hand Held Sprayer)
- (Tree Icon)
- (Plant Icon)
- UPC Symbology
- Picture Fire Ant Mound
- Picture of a residential home
- Picture of a lawn
- Pictures of one or more of the following insects: Termites, ants (including Fire Ant mounds and Carpenter Ants), cockroach, spider, scorpion, fleas, tick, mosquito

Other

- Treats up to (#will depend on application) Square Feet
- Made in the USA
- Formulated and Packaged in the USA
- How to Apply
- When to Apply
- Amount to Use