

U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES PROGRAMS
REGISTRATION DIVISION (WH-567)
WASHINGTON, D.C. 20460

EPA REGISTRATION NO. _____ DATE OF ISSUANCE
12/15/84

TERM OF ISSUANCE
initial registration

NOTICE OF PESTICIDE: REGISTRATION
 REREGISTRATION
(Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended)

NAME OF PESTICIDE PRODUCT
Kloroxol Concentrate E

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

[Faded text, illegible]

NOTE: Changes in labeling formula 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 U.S. EPA registration number.

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.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this 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.

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RE: _____
FOR: _____

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL _____ DATE _____

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 stamped copy of the label is enclosed for your records.

Jay S. Ellenberger
Product Manager (12)
Insecticide-Rodenticide Branch
Registration Division (TS-767C)

Enclosure

JOB-85010:Ellenberger:tar:Kendrick:898-1270:11/30/84:Del.12/8/84:RD-15A

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NEW
TERMITE CONTROL
INSECTICIDE

DIRECTION BOOKLET

K L O R - B A N

C O N C E N T R A T E

Protects Homes, Lawns and Ornamentals

From Insect Attack

LONG-LASTING RESULTS

Kills Termites, Ants, Fireants, Grubs,
Cutworms, Powder-Post Beetles, Crickets,
Spiders, Plus Others Listed On Back Panel

Treats Up To 28,000 Sq. Ft. Of Lawn

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PRECAUTIONARY STATEMENTS

Hazards to humans

CAUSES EYE IRRITATION

HARMFUL IF SWALLOWED

Do Not Take Internally * Do Not Get in Eyes, on Skin or Clothing * Wash Thoroughly After Handling * Wash Contaminated Clothing Before Reuse * Avoid Breathing Vapors and Spray Mist * Avoid Spraying Food Crops * Keep Away From Food, Feedstuffs, and Domestic Water Supplies * Keep Container Closed * Handle Concentrate in a Ventilated Area

STATEMENT OF PRACTICAL TREATMENT

If Swallowed: Do not induce vomiting. Contains aromatic petroleum solvent. Call a physician immediately. If On Skin: In case of contact, remove contaminated clothing and immediately wash skin with plenty of soap and water. If in Eyes: Flush eyes with plenty of water for at least 15 minutes. Call a physician. Note to Physician: Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. Atropine, only by injection, is the preferable antidote. Oximes, such as 2-PAM/protopam, may be therapeutic if used early; however, use only in conjunction with atropine. In case of severe acute poisoning, use antidotes immediately after establishing an open airway and respiration.

PHYSICAL OR CHEMICAL HAZARDS

COMBUSTIBLE

Do Not Use or Store Near Heat or Open Flame

Do Not Cut or Weld Container

ENVIRONMENTAL HAZARDS

KLOR-BAN CONCENTRATE is toxic to fish, birds, and other wildlife. Do not apply directly to lakes, streams or ponds. Shrimp and crabs may be killed at application rates recommended on this label. Do not apply where these are important resources. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of wastes. Apply this product only as specified on this label. This product is highly toxic to bees exposed to direct treatment or residues on plants. Protective information may be obtained from your Cooperative Agricultural Extension Service.

KLOR-BAN CONCENTRATE

KLOR-BAN CONCENTRATE is designed for the homeowner and can be used to control termites, soil insects in lawns, and even as a barrier treatment around your home.

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PRECAUCION Al Usuario: Si usted no lee ingles, no use esta producto heste que la etiqueta le haya sido explicada ampliamente.

TRANSLATION: (TO THE USER: If you cannot read English, do not use this product until the label has been fully explained to you)

USE DIRECTIONS

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

SPRAY DILUTION CHART

Gallons of Spray Mixture Desired	Fluid Ounces * of KLOR-BAN CONCENTRATE to Use	
	0.25% spray	0.50% spray
Water-base spray		
1	3	5-1/3
3	8	16
5	13-1/3	27
10	27	54

*Note: 1 fluid ounce = 2 tablespoonfuls = 6 teaspoonfuls

PESTS OUT-OF-DOORS

Pests on Outside Surfaces of Buildings: Use KLOR-BAN CONCENTRATE at the rate of 5 1/2 fluid ounces per one gallon of water (0.5% chlorpyrifos emulsion) to control ants, clover mites, cockroaches, crickets, earwigs, fleas, flies, millipedes, mosquitoes, sowbugs, spiders and ticks by application as a residual spray or with a paint brush to outside surfaces of buildings, including porches, screens, window frames, eaves, patios, garages, refuse dumps and other areas where these pests congregate or have been seen. Do not treat or allow the spray to contact plants (lawns, flowering plants, shrubs, trees, evergreens, etc.) because of possible injury. Repeat treatment as needed to maintain effectiveness.

NOTE: To help prevent infestation of buildings by ants, crickets, earwigs, millipedes, and sowbugs (pillbugs), treat a band of soil 6 to 10 feet wide around and adjacent to the buildings, also the building foundation to a height of 2 to 3 feet, where pests are active and may find entrance. Use 2 pints of KLOR-BAN CONCENTRATE per 100 gallons of water and apply as a coarse spray at the rate of about 10 gallons spray mixture per 1000 sq. ft. to thoroughly and uniformly wet the band area.

Pests of Lawns and other Ornamental and Recreational Turf Grass Areas: Use KLOR-BAN CONCENTRATE to control pests listed in the following table by application at the recommended dosages and in accordance with the directions given below. Dilute KLOR-BAN CONCENTRATE in enough water to obtain complete and uniform coverage of pest-infested areas and apply as a coarse, low-pressure spray using suitable application equipment. Thoroughly water immediately after treatment to wash the insecticide into the turf, except as noted. For best results, the lawn should be moist at time of treatment.

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Pests of Ornamentals: Use Klor-Ban Concentrate insecticide to treat flowers, shrubs, vines, shade and flowering trees, and evergreens found to be infested with the pests listed in the following table. Dilute Klor-Ban Concentrate with water according to directions given in the table and apply using suitable hand or power spray equipment in a manner to provide complete and uniform coverage. For best results apply a wetting spray to both upper and lower leaf surfaces and infested limb and trunk areas. Attempt to penetrate dense foliage but avoid overspraying to the point of excessive runoff. Treat when pests appear and repeat at 7 to 10 day intervals if needed. NOTE--Do not use on azaleas, camellias, poinsettias, rose bushes, or variegated ivy because of possible injury to these plants.

Dogwood Borer: Apply Klor-Ban Concentrate to the trunks and lower limbs of dogwood trees when the adults begin to emerge. Consult your State Agricultural Experimental Station or Extension Service specialist for proper time to treat in your area. Mix at the rate of one gallon of Klor-Ban Concentrate in 100 gallons of water and apply uniformly on trees as a coarse, low-pressure spray.

Peach Tree Borer: Apply Klor-Ban Concentrate to flowering trees and shrubs of the Genus Prunus in water as a trunk spray before newly hatched larvae enter the trees. Apply as a coarse, low-pressure spray. Thoroughly wet all bark areas from the ground level to scaffold limbs. Consult your State Agricultural Experimental Station or Extension Service specialist for proper time to treat in your area.

NOTE: Mosquitoes coming to rest on areas treated for control of turf and ornamental plant pests will be killed for varying periods of time after treatment, depending on exposure of treated areas to weathering conditions.

Attention (Lawn and Ornamental Plant Pests): Keep children and pets off treated areas until spray has dried. Keep out of lawn and garden fishpools and other bodies of water.

Native Elm Bark Beetle: Prevention of Overwintering. To prevent the adult beetle from overwintering in uninfested trees and to reduce beetle populations in disease-free areas, apply Klor-Ban Concentrate as a 0.5% mixture of chlorpyrifos in water to the bottom 9 feet of the trunk. Wet the trunk thoroughly but do not spray to runoff. Care should be taken to apply the spray right to the base of the root flare. Applications can be made with either a back pack mist blower or a hydraulic pressure sprayer from spring through to the early fall. Prevention of Branch and Twig Feeding on High Value Elm Trees. To reduce the twig and branch feeding on uninfested trees deemed to be high in value apply 0.5% chlorpyrifos water spray to the tree crown. Application should be made in the spring or early summer using a sprayer that will give thorough coverage to the tree crown.

Fleas (Outdoors): Use Klor-Ban Concentrate to control fleas in or around lawns and kennels. Apply to turf areas at a rate of 2 1/2 fl. oz./1000 sq. ft. Treat grassy areas, weeds and ground surface areas in and around kennels, animal runs or under porches where pets may rest. Can also be used as overall application to turf. Spray these infested areas thoroughly using a coarse low pressure spray and enough water to obtain complete and uniform coverage of pest-infested areas. Repeat treatment as needed.

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DOSAGES AND DIRECTIONS for USE on TURF

Pest	Dosage KLOR-BAN per 1000 sq.ft.	Remarks
Ants, Armyworms Brown dog tick, Chiggers, Chinch bugs, Clover mite, Crickets, Cutworms, Earwigs, Grass- hoppers, Sod Web- worms, Ticks	3 fl. oz.	Spray when pests first appear, retreat when needed. For sod webworms delay watering or mowing the treated areas for 12 to 24 hours after treatment
Turfgrass (Hyperodes) weevil	6 fl. oz.	Spray suspected problem areas in mid-April and again in mid-May or as recommended by your local Agricultural Extension Service specialist for your area.
White grubs (European chafer and Japanese Beetle larvae only)	6 to 12 fl. oz.	For white grubs spray when grubs are young and actively feeding near the soil surface usually during late July and August or as recommended by your local Agricultural Extension Service specialist for your area immediately after spraying, Irrigate the treated area with $\frac{1}{2}$ to 1 inch of water to wash the insecticide into the underlying soil.
Bluegrass billbug	6 to 12 fl. oz.	Spray early in the season when adults first appear. Retreat as needed.

$1\frac{1}{2}$ fl. oz. per 1000 sq. ft. = $7\frac{1}{2}$ fl. oz. per 5000 sq. ft. = 1 pint per 10,700 sq. ft. = 2 quarts per acre

Area Control of Ticks and Chiggers: Use KLOR-BAN CONCENTRATE to control ticks and chiggers infesting non-cropland areas such as roadsides, footpaths and trails, picnic and camping sites, parks and other recreational areas where these pests are present and create a nuisance or possible public health problem. Apply KLOR-BAN CONCENTRATE in water at the rate of 2 pints per acre (equivalent to 1 fl. oz. per 2,700 sq. ft.) using a hydraulic sprayer, mist applicator, knapsack sprayer, or other suitable hand or power spray equipment. Treat low underbrush, grassy areas, weeds, and ground surface and debris using enough spray volume to obtain thorough coverage, usually 40 to 100 gallons per acre.

Attention (Area Control of Ticks and Chiggers): Do not allow public use of treated areas during application or until spray has dried.

Imported Fire Ant: Treatment of fire ant mounds. Apply KLOR-BAN CONCENTRATE as a drench diluted at the rate of 2 fl. oz. (30cc) per 2 gallons of water. Gently sprinkle a total of 1 gallon of the diluted solution over the surface of each mound using a sprinkler can. Thoroughly wet mound and surrounding areas to a 4 ft. diameter (12 sq. ft.). For best results apply in cool weather, 65-80°F, or in early morning or late evening hours. Treat new mounds as they appear. Pressurized sprays may disturb the ants and cause migration, reducing product effectiveness.

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DOSAGES and DILUTIONS for USE on
ORNAMENTAL PLANTS

Pests Controlled	Amount of KLOR-BAN CONCENTRATE in Water to Make	
	3 gallons	10 gallons
Aphids Bagworms Eastern tent caterpillar Fall webworm Grasshoppers	Mites Orangestriped oakworm Spittlebugs Whiteflies Yellownecked caterpillar	1 fl. oz. 3.2 fl. oz.
Cutworms Leafhoppers Mealybugs	Mimosa webworm Redhumped caterpillar Thrips (exposed)	2 fl. oz. 6.4 fl. oz.
Ash borer Lilac borer Dogwood borer	Scale crawlers: Oak lecanium Pine needle Tea White peach	4 fl. oz. 12.8 fl. oz.
Peach tree borer		11.6 fl. oz. 38.4 fl. oz.

NOTE: 2 tablespoons = 1 fl. oz.

SUBTERRANEAN TERMITES - DIRECTIONS FOR HOMEOWNER USE

Mix KLOR-BAN CONCENTRATE in a hose-end sprayer or sprinkling can at a rate of 5-1/3 oz./gallon of water or 16 oz./3 gallons of water.

BUILDINGS HAVING BASEMENT OR CRAWL SPACES: Around piers, pipes, chimney bases and along foundations of poured concrete dig a trench 6 inches wide and 4 inches deep. For brick and block foundations dig the trench about 12 inches deep. If footing is more than 12 inches deep, make holes with a crowbar, pipe or a rod about one foot apart that extend from the trench bottom to the top of the footing. Make holes closer in hard-packed clay soils. NEVER DIG BELOW THE TOP OF THE FOOTING. Apply the mixed solution in the trench at a rate of 4 gallons per 10 linear feet per foot of depth. Apply half of this to the back-fill. Likewise, treat along the inside of foundations of crawl-space building. Cover treated soil with a thin layer of untreated soil.

FOR RAISED PORCHES, TERRACES, AND ENTRANCE SLABS: Drill holes at one foot intervals, 6 inches from the foundation, and pour one-half gallon of mixed solution into each hole. Refill holes. Slabs with heat ducts or radiating heat pipes should be treated by commercial pest control operator.

NOTE: When conditions will not permit trenching, surface application adjacent to interior foundation walls may be made by the treated strip should not exceed 18" in width. Apply solution with a sprinkling can. Mix 5-1/3 oz. per gallon of water and treat 2-1/2 linear feet of trench or foundation.

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The object is to establish a treated soil barrier which will prevent termite entry. Other critical areas may also require treatment, particularly if there are inaccessible areas, basements or slab-type construction. It is suggested that you contact the Agricultural Cooperative Extension Service for advice or consult a Commercial Pest Control Service.

Avoid contamination of public and private water supplies by following these precautions. Do not allow a hose or any type of faucet extension to reach into the termite chemical solution while filling or mixing this material with water. Use antiback-flow or anti-siphonage equipment on all filling equipment. These devices can be purchased at hardware or plumbing supply stores. Use of antiback-flow equipment will help to insure that the user of this toxic chemical will not contaminate domestic water supplies. Refer to Federal (Federal Housing Administration), state, and local specifications for safe distances of treatment areas from wells. Soil in the vicinity of wells, cisterns or ponds should not be treated if it is water saturated, subject to excessive saturation due to an accumulation of water or if the soil to be treated around the perimeter of the structure is at a grade lower than surrounding yard or property area. If this is the situation treat as follows: Do Not Apply Under Pressure. Soil should be removed to an area safe from well or domestic water contamination, treated, allowed to stand undisturbed for two to four hours then returned to the trench which has been lined with 4 mil. plastic sheeting. Be careful not to puncture the plastic sheeting when returning soil to the trench. Do not treat structures that contain cisterns or wells.

RETREATMENT RESTRICTIONS

1. Retreatment for subterranean termites should only be made when there is evidence of reinfestation subsequent to the initial treatment or there has been a disruption of the chemical barrier in the soil due to construction, excavations, landscaping, etc.
2. Retreatments may be made to critical areas in accordance with the application techniques described above. This application should be made as a spot treatment to these areas.

Routine retreatment of the entire premises should be avoided.

Wood Infesting Beetles: To control powder-post beetles, furniture beetles, shot-hole borers and other wood-infesting beetles of the families Lyctidae, Anobiidae, Bostrichidae, and Cerambycidae, apply as a 0.5% chlorpyrifos solution to exterior surfaces only. Apply by brushing the emulsion evenly on wood surfaces or as a coarse spray to the point of runoff. Sprayed surfaces should be avoided until the spray has totally dried.

STORAGE AND DISPOSAL

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

Storage: Store in original container in secured, dry storage area. Do not store above 120 F. Do not stack higher than 2 pallets. If spill occurs, use immediately or dispose of as indicated below.

Pesticide disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

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Container disposal: Triple rinse (or equivalent). Then puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

In case of an emergency or application problem call the Technical Director at 1-800-428-1443. In Indiana, call 317-872-9770.

*Dursban is a trademark of Dow Chemical, USA

E.P.A. Reg. No.
E.P.A. Est. No. 654-IN-1

Manufactured by:
Federal Chemical Co.