

US ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES PROGRAMS
REGISTRATION DIVISION (TS 767)
WASHINGTON, DC 20460

EPA REGISTRATION NO. 4-1-1

DATE OF ISSUANCE
2/12/86

TERM OF ISSUANCE

Until Reregistration

NAME OF PESTICIDE PRODUCT

Durban 1-7

NOTICE OF PESTICIDE:

REGISTRATION
 REREGISTRATION

(Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended)

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Bishop Chemical Co.
P.O. Box 19, P.O. Box 303
Clyde, OH 44701

165493
181
161

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 endorsement 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.

Ray S. Ellenberger
Product Manager (19)
Insecticide-Rodenticide Branch
Registration Division (TS-767C)

Enclosures

ATTACHMENT IS APPLICABLE

BEST AVAILABLE COPY

SIGNATURE OF APPROVING OFFICIAL

Ray S. Ellenberger

DATE

2/12/86

DURSBAN® 1-E
INSECTICIDE
GENERAL INFORMATION
Inside & Outside
Pest Control
FLEAS & ROACHES
and Many Others

ACCEPTED
with COMMENTS
EPA Letter Dated:

FEB 12 1986

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
34875-25

1 of booklet)

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

HAZARDS TO HUMANS*CAUSES EYE IRRITATION*HARMFUL IF SWALLOWED

Do not take internally*Do not get in eyes, on skin, or clothing* 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.

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to fish, birds and other wildlife. Do not apply directly to water. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. Cover or incorporate spills. Do not contaminate water by cleaning of equipment or disposal of wastes.

PRECAUCION Al Usuario Si usted no lee ingles no u
naste que la etiqueta he haya sido explicada am
TRANSLATION: (TO THE USER If you cannot read
use this product until the label has been fully ex
USE DIRECTIONS

It is a violation of Federal law to use this product
consistent with its labeling

PESTS INDOORS

General Information Use DURSBAN 1-E insecticide
pests indicated in the areas listed below by applica
and 5% chlorpyrifos spray. Use the 0.25% spray to
festations and the 0.5% spray to quickly reduce the
or as directed. To prepare the spray dilute DURSBAN
as shown in the following SPRAY DILUTION CHART Repeat the
treatment as needed

Transferred to

28293--210

SA
3/2/83

BEST AVAILABLE COPY

SPRAY DILUTION CHART

Gallons of Spray Mixture Desired	Fluid Ounces of DURSBAN 1 E To Use	
	0.75% Spray	0.50% Spray
Water base spray		
1	3	5 1/2
3	8	16
5	13 1/2	27
10	27	54

Note: 1 fluid ounce = 2 tablespoons = 6 teaspoons

NOTE: Where quick knock-down and/or flushing action is desired, dichlorvos (DDVP) or pyrethrin may be added to the spray mixture containing DURSBAN 1 E. Consult labeling for the dichlorvos or pyrethrin product used to determine the amount needed to give the desired spray concentration. Also read and observe use and handling precautions for these products. Do not use DURSBAN 1 E in combination with dichlorvos (DDVP) or pyrethrin for treatment of food areas of food handling establishments.

Application within food handling establishments (places other than private residences in which food is held, prepared, or served) including, but not limited to, restaurants, grocery stores, bakeries, bottling plants, canneries and grain mills. Use as a spot treatment in and around both food and nonfood areas to control cockroaches (including strains resistant to certain other insecticides), ants, crickets, fleas, silverfish spiders and stored product insects such as confused flour beetles, saw-toothed grain beetles, Indian meal moths, rice weevils, Mediterranean flour moth and red flour beetles. Apply as a coarse, low pressure (20 psi) misted spray to localized areas where the above pests have been seen or are suspected of

hiding or entering. Apply only enough spray to thoroughly cover the surfaces treated using special care to avoid unnecessary runoff. Do not introduce the spray into the air or allow the spray to contact food or food-contacting surfaces. Areas treated may include dark corners of rooms and closets, along and behind baseboards, beneath and behind stoves, refrigeration units and similar food preparation areas and equipment, floor drains and around plumbing and other utility installations. For ants apply to ant trails and wherever these pests may find entrance. Spot treatment may include crack and crevice treatment by applying small amounts of material directly into openings leading to voids and hollow spaces in walls and on and around equipment legs and bases of equipment. Equipment capable of delivering a stream of insecticide should be used. Repeat treatment as needed but not more than once every 7 days in restaurants and similar food service establishments. In case of emergency (call back) DURSBAN 1 E may be applied after 2 days from last treatment, but emergency use should be limited to once per month.

Applications of this product in food handling establishments other than as a spot and/or crack and crevice treatment are not permitted.

Application within residential buildings including homes and apartment buildings and within nonfood areas of industrial, institutional, and commercial buildings including hospitals, stores, manufacturing plants, and warehouses. For spot treatment only — Apply as a coarse spray or with a paint brush to localized areas where cockroaches (including strains resistant to certain other insecticides), ants, clover mites, crickets, fleas, silverfish and spiders are found or normally occur including dark corners of rooms and closets, cracks and crevices in walls, along and behind baseboards, beneath and behind stoves, refrigerators and cabinets, around plumbing and other utility installations. For ants apply to ant trails, also, around doors and windows and wherever else these pests may

find entrance. For clover mites use a fine spray only.

Note: A period of 4 to 7 days is normally required for maximum effect on cockroaches.

For control of carpet beetles: Thoroughly apply an 0.5% spray as a spot treatment along baseboards and edges of carpeting, under carpeting, rugs and furniture in closets and on shelving, and wherever else these insects are seen or suspected.

For control of fleas and brown dog ticks: Thoroughly apply a 0.5% spray as a spot treatment of infested areas such as pet beds and resting quarters, nearby cracks and crevices, along and behind baseboards, window and door frames, and localized areas of floor and floor covering where these pests may be present. Old bedding of pets should be removed and replaced with clean, fresh bedding after treatment. **DO NOT TREAT PETS WITH THIS PRODUCT.** To control the source of flea infestation, pets inhabiting the treated premises should be treated with a product registered for application to animals.

Attention (Pests Indoors): Do not apply water base sprays of this product in conduits, motor housings, junction and switch boxes or other electrical equipment because of possible shock hazard. Do not use in poultry houses or other animal buildings. Do not allow spray to contact food, feedstuffs, and water supplies. Thoroughly wash dishes and food handling utensils with soap and water if they become contaminated by application of this product. Do not allow children or pets to contact treated surfaces until spray has dried. Remove pets and cover fishbowls (tanks) before spraying.

PESTS OUT OF DOORS

General information: Use DURSBAN 1 E insecticide for control of certain pests on outside surfaces of buildings and on lawns and ornamental plants for area control of ticks and chiggers. Consult the following directions for dosage and application details to control the pests listed.

Pests on outside surfaces of buildings: Use DURSBAN 1 E 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, 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.) for cause 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 building foundation to a height of 2 to 3 feet where pests are active and may find entrance. Use 2 pints of DURSBAN 1 E 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 areas: Use DURSBAN 1 E to control pests listed in the following table by application at the recommended dosages and in accordance with the directions given below. Dilute DURSBAN 1 E 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 mowed at time of treatment.

PG 2

DOSAGES and DIRECTIONS for USE on TURF		REMARKS
PEST	DOSAGE DURSBAN 1 E per 1000 sq ft	
Ants, Armyworms, Brown Dog Ticks, Chiggers, Chinch Bugs, Clover Mite, Crickets, Cutworms, Earwigs, Fleas, Grasshoppers, Sod Webworms, 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 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 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.

PG 3

CONDITIONS and RATES to USE for MOSQUITO CONTROL

Condition of Area to be Treated	Amount to Use per Acre		Number Acres 1 Gallon of DURSBAN 1 E will treat
	DURSBAN 1 E (fluid ounces)	Chlorpyrifos (pounds)	
Larval Control None to medium vegetative cover	1.1 to 3.2	0.025 to 0.075	160 to 80
Larval Control Medium to heavy vegetative cover	1.2 to 3.4	0.025 to 0.075	80 to 40
Adult Control Light to medium vegetative cover	1.2	0.025	80
Adult Control Medium to heavy vegetative cover	1.4	0.025	80

*The higher dosage will also give faster knockdown and longer residual control where there is little or no vegetative cover.

Pests of ornamentals: Use DURSBAN 1 E insecticide to treat flowers, shrubs, vines, shade and flowering trees, and evergreens found to be infested with the pests listed in the table. Dilute DURSBAN 1 E 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 DURSBAN 1 E to the trunks and lower limbs of dogwood trees when the adults begin to emerge. Consult your

PG 4

1 pint per 1000 sq ft = 2 quarts per acre
1 quart per 10,700 sq ft = 2 quarts per acre

DOSAGES and DILUTIONS for USE on ORNAMENTAL PLANTS

Pests Controlled	Amount of DURSBAN 1 E in Water to Make		
	3 gallons	10 gallons	100 gallons
Aphids, Bagworms, Eastern Tent Caterpillar, Fall Webworm, Grasshoppers, Mites, Orange-striped Oakworm, Spittlebugs, Whiteflies, Yellow-necked Caterpillar	1 fl oz	1/2 fl oz	2 pints
Cutworms, Leafhoppers, Mealybugs, Mimosa Webworm, Redhumped Caterpillar, Thrips (Eggs and)	2 fl oz	1/4 fl oz	2 quarts
Ash Borer, Bark Borer, Dogwood Borer, Scale, Crawlers, Oak Leaf Anthonomus, Pine Needle Tip, White Pine	4 fl oz	1/2 fl oz	4 quarts
Scale, Tree Borer	1/2 fl oz	1/4 fl oz	1/2 quart

Equivalent to 4 ounces of Chlorpyrifos per 100 gallons
Equivalent to 1/2 pound of Chlorpyrifos per 100 gallons
Equivalent to 1/2 pound of Chlorpyrifos per 100 gallons
Equivalent to 1/2 pound of Chlorpyrifos per 100 gallons

BEST AVAILABLE COPY

Native Elm Bark Beetle: Prevention: To prevent the adult beetle from overwintering in trees and to reduce beetle populations, in late fall apply DURSBAN 1 E insecticide to the trunk of trees. Dilute DURSBAN 1 E with water to the bottom 4 feet of the trunk. Wet the trunk thoroughly. Do not spray the trunk. Care should be taken to apply the spray to the base of the trunk. Applications can be made with either a backpack 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 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. **Area control of ticks and chiggers:** Use DURSBAN 1 E insecticide to control ticks and chiggers infesting open woodland areas such as

PG 10

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 DURSBAN 1 E 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:** Treated of potted, containerized and balled and burlapped nursery stock. Use DURSBAN 1 E to control imported fire ants in soil attached to roots of these plants by completely submerging the ball of the soil in a tank containing DURSBAN 1 E diluted at the rate of 16 fl oz per 100 gallons of water. Do not remove burlap wrap or plastic containers with drain holes prior to submerging. Keep soil submerged until complete saturation has occurred, normally about 30 seconds. Wear rubber gloves, boots and apron during this operation.

Treatment of fire ant mounds: Apply DURSBAN 1 E 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 area 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 them to burrow, reducing product effectiveness.

PG 11

NOTE OF EXPORT

STORAGE: Store in original container in safe, dry place. Do not use for other than pest control. Keep out of hands, food or feed.

PREPARED FOR EXPORT: This product is for export use only. It is not to be used in the United States. If you have spilled product, do not use the material left to disposal.

CONTAINER DISPOSAL: Do not reuse or refill containers. Dispose of containers in accordance with local regulations.

NOTICE: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

DURSBAN® 1-E
INSECTICIDE
ROACH AND FLEA
CONCENTRATE

Controls Numerous Pests of Household, Turf and Ornamental Plants.

ACTIVE INGREDIENTS:

Chlorpyrifos (0,0-diethyl 0-(3,5,6-trichloro-2-pyridyl) phosphorothioate)..... 12.6 %
 Xylene Range Aromatic Solvent..... 21.5%

INERT INGREDIENTS:

TOTAL:..... 100%

Contains 1 pound chlorpyrifos per gallon.

DURSBAN - TRADEMARK OF THE DOW CHEMICAL COMPANY

WARNING: KEEP OUT OF REACH OF CHILDREN

BEST AVAILABLE COPY

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

HAZARDS TO HUMANS * CAUSES EYE IRRITATION * HARMFUL IF SWALLOWED
 Do not take internally * Do not get in eyes, on skin or clothing * 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 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 an antidote.

PHYSICAL OR CHEMICAL HAZARDS

COMBUSTIBLE * Do not use or store near heat or open flame * Do not cut or weld container.

SEE ATTACHED BOOKLET FOR ADDITIONAL PRECAUTIONS

AGRICULTURAL CHEMICAL

Do not ship or store with food, feed, drugs or clothing.

EPA Reg. No. 464-567

EPA Est. No. 34874-TX-1

NFT CONTENTS: 1 Quart

Manufactured by:

BISHOP CHEMICAL, INC.

1812 E.S.F. Loop 323
 Tyler, Texas 75701