

8378-17

05/04/2000

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

MAY 4 2000

Knox Fertilizer Company, Inc.
 c/o Mr. H. R. McLane
 H.R. McLane, Inc.
 7210 Red Road, Suite 206
 Miami, FL 33143-5321

Dear Mr. McLane:

SUBJECT: Trifluralin Product Reregistration
 Shaw's XX-XX-XX Turf Food With Crabgrass Control
 EPA Registration Number: 8378-17
 Your Resubmission dated April 26, 2000

The revised labeling for the subject product, referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable provided you:

1. Revise the Entry Restrictions section as specified in the RED for occupational, non-WPS granular applications:

"Do not enter or allow others to enter the treated area until dusts have settled. If soil incorporation is required after the application, do not enter or allow others to enter the treated area (except those persons involved in the incorporation) until the incorporation is complete. If the incorporation is accomplished by watering-in, do not enter or allow others to enter the treated area until the surface is dry after the watering-in."

2. In the directions for use for controlling Spring germinating annual grasses in "Northern Cool Season Grasses" (near the top of the second column), correct the typographical error in the active ingredient equivalency statement in the second line. It should be corrected to read "(equal to 1.5 to 2 lbs. Act. Inged./acre)".

3. Correct the typographical error in item 2 under "IMPORTANT PRECAUTIONS IN USING THIS PRODUCT". The words "Do not" are repeated twice at the beginning of the sentence.

A stamped copy of the labeling is enclosed for your records. Please submit one copy of your final printed labeling incorporating these changes before you release the product for shipment.

RD:STANTON:PM Team 23:Rm. 239:CM-2:305-5218:Disk #12:8378-17.rre

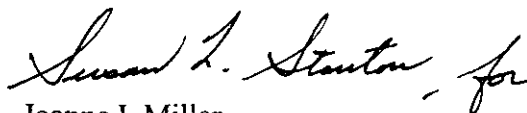
CONCURRENCES

SYMBOL ▶	7505C							
SURNAME ▶	S. Stanton							
DATE ▶	May 4, 2000							

-2-

EPA has determined that you have fulfilled the requirements of the trifluralin RED for the subject product. However, we are unable to reregister the product under FIFRA §4(g)(2)(c) at this time, since it also contains the active ingredient, benefin, for which a reregistration eligibility decision has not yet been made. You will be notified of the Agency's reregistration decision for products containing benefin when the benefin RED is completed.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "Joanne I. Miller", followed by a small flourish.

Joanne I. Miller
Product Manager (23)
Herbicide Branch
Registration Division (7505C)

Enclosure

Remove contact lenses, if present, after 3 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice. **IF ON SKIN** - Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice. **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. **NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Have the product container or label with you when calling a poison control center, or doctor, or when going for treatment.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: Causes substantial but temporary eye injury. Harmful if absorbed through the skin. Do not get in eyes or on clothing. Avoid contact with skin. Prolonged, or frequently repeated, skin contact may cause allergic reactions in some individuals.



Personal Protective Equipment

Applicators and other handlers must wear long-sleeved shirt and long pants, waterproof gloves, shoes plus socks, and protective eyewear. Follow manufacturers instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.



User Safety recommendations

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. Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to freshwater marine and estuarine fish and aquatic invertebrates, including shrimp, and oysters. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean highwater mark. Do not apply in a manner which will directly expose canals, lakes, streams, ponds, marshes, or estuaries to aerial drift. Do not contaminate water when disposing of equipment washwaters.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. 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. Not for use on turf being grown for sale or other commercial use as sod, or for commercial seed production, or for research purposes.

Entry Restrictions

Do not enter or allow others to enter the treated area until dusts have settled. Watering in, is required after the application. Do not enter or allow others to enter the treated areas (except those involved in the watering) until the watering is complete, and the grass and surface is dry.

WHERE TO APPLY FOR CRABGRASS CONTROL

When applied according to these directions this product can be used safely on the following turfgrass varieties Perennial Bluegrass varieties, Perennial Rye grass varieties, Bermudagrass, Bahiagrass, Centipedegrass, Fescue varieties, St. Augustinegrass & Zoysia Grass growing in home lawns, golf courses, parks, and all other commercial, recreational and ornamental turfgrass areas. Will not harm most common ornamental trees and shrubs when used as directed.

OTHER WEEDS CONTROLLED

This product contains a combination of Benefin and Trifluralin preemergence Herbicides plus a Lawn Food. It should be applied to established turf for the control of Crabgrass (Smooth and Hairy), Goosegrass (Silver Crab or Crowfoot), Barnyardgrass (Watergrass), Foxtail (Green and Yellow), and Annual Bluegrass.

WHEN TO APPLY

Apply to turf prior to germination of weed seeds since established weeds will not be controlled. Apply only to healthy established turf grass lawns.

WHEN AND HOW TO TIME THE APPLICATION

Successful preemergence control of the annual grassy weeds as listed requires proper application timing. It must be applied 1 to 2 weeks prior to the germination of the weed seeds. All summer annual weeds do not germinate at the same time. For this reason application timing must coincide with the normal germination period of any one of the annual grassy weeds. If not, poor and erratic weed control will result due to improper application.

WATER THE LAWN AFTER APPLICATION:

It is not necessary but optimum weed control performance will be obtained if treated areas are irrigated with 1/4 to 1/2 inch water (or equivalent rain occurs) soon after application. Any cultural practices that disturb the soil such as verticutting, should be done prior to application of this product.

IMPORTANT PRECAUTIONS IN USING THIS PRODUCT

1. DO NOT apply in the spring to Bermuda Grass which has been overseeded with winter grasses (annual rye) since thinning will occur.
2. DO NOT do not use on Dichondra, nor to newly sprigged areas of Bermudagrass, St. Augustine Grass or Centipede Grass, nor to Bentgrass or putting greens until these turfs are well established.
3. DO NOT apply in spring to Turfgrass planted the previous fall. This product may thin established Annual Bluegrass (Poa Annua) & Fine-Leaved Fescue lawns when used at higher rates than 176 lbs. per acre. (2.0 lb. A.I. per Acre) Do not overdose.

sq. where turf is in a yearly crabgrass control program.

"LATE SPRING-EARLY SUMMER GERMINATING" ANNUAL GOOSEGRASS (SILVER CRAB).

Although classified as a summer annual grass, Goosegrass normally germinates 4 to 6 weeks later than the crabgrass, foxtails and other summer annual grass species. Applications of this product should therefore, be timed accordingly.

A. Northern cool season turfgrasses - For preemergence control apply 176 lbs/acre (equal to 2 lbs. Active Ingredient per acre) of this product in late spring or early summer one to two weeks prior to the expected germination period of Goosegrass. Use 40 lbs. to cover 10,000 sq.ft.

B. Southern warm season turfgrasses - For preemergence control, apply 176 to 263 lbs. per acre (equal to 2 to 3 lbs. Active Ingredient per acre) of this product in late spring or early summer one to two weeks, prior to the expected germination of Goosegrass. Use one 40 lb. bag to cover for 6,660 to 10,000 sq.ft. Use for 6,660 sq.ft. where turf is completely overrun by weeds. Use for 10,000 sq.ft. where weeds are sparse and the area is in a yearly lawn maintenance program.

APPLY TWICE FOR FULL SEASON CONTROL IN NORTHERN AND SOUTHERN TURFGRASSES

In areas of the United States where preemergence control of both early germinating annual grasses (Crabgrass, Foxtail, and Barnyardgrass) and the later germinating Goosegrass is desired, two application of this product at the recommended rate, spaced 8 to 10 weeks apart may be made to provide full season control of these annual grass species.

POA ANNUA (ANNUAL BLUEGRASS) CONTROL

In areas of heavy infestation of Annual Bluegrass, its elimination will leave areas of thin turf. Employ proper cultural practices to establish a new turf.

A. Northern cool season turfgrasses - For preemergence control apply 176 lbs. per acre (equal to 2 lbs. Active Ingredient per acre) of this product per acre in late summer or early fall and again in late winter or spring one to two weeks prior to expected germination of annual bluegrass. One 40 lb. bag will treat 10,000 sq. ft. of turfgrass.

B. Southern warm season turfgrasses - For preemergence control apply 263 lbs. per acre (equal to 3 lbs. Active Ingredient per acre) of this product per acre in the later summer or early fall one to two weeks prior to expected germination of poa annua. One 40 lb. bag will treat and feed 6,660 sq. ft. of turfgrass. In southern areas where germination continues for extended periods of time a second application at 263 lbs. per acre can be made 10 to 12 weeks after the initial treatment.

RESEEDING TREATED AREAS

1. Delay reseeding - 6 weeks when applying at the rate of 132 or 176 lbs./acre equal to 1.5 to 2.0 lbs. Active Ingredient / acre, or when using one 40 lb. bag to cover 10,000 to 13,300 sq.ft....
2. Delay reseeding - 12 to 16 weeks when applying at rate of 263 lbs./acre equal to 3.0 lbs. of a. i. per acre or when using one 40 lb. bag to cover 6,660 sq.ft. of turfgrass. When Reseeding increase the amount of seed put down by 10% - 15%.

SPREADER SETTINGS

The following spreader settings are for use with new equipment. Your spreader may need recalibrating since proper application is based on equipment condition with regard to age and use, your walking speed and the unevenness of the terrain. Poor weed control will result from uneven or improper application.

Spreader	40# bag per sq. ft.	Northern Lawns		Southern Lawns	
		Crabgrass etc.	Poa Annua	Crabgrass etc.	Poa Annua
SCOTT #35	13,330 "	XX	X	X	X
	10,000 "	XX	XXX	X	X
	6,660 "	X	X	XX	X
CYCLONE B1	13,330 "	XX	X	X	X
	10,000 "	XX	X	XX	XX
	6,660 "	X	X	XX	XX

40 lbs. to treat 13,330 sq.ft. = 132 lbs./acre = 1.50 lbs. A.I./acre

40 lbs. to treat 10,000 sq.ft. = 176 lbs./acre = 2.00 lbs. A.I./acre

40 lbs. to treat 6,660 sq.ft. = 263 lbs./acre = 3.00 lbs. A.I./acre

(*) GUARANTEED FERTILIZER ANALYSIS

Nitrogen - - - - -	Variable %	Primary Plant Food derived from
Ammoniacal (N).....	Variable %	Urea, Sulfur Coated Urea, Muriate
Urea (N).....	Variable %	of Potash, Ammoniated Phosphate.
Sulfur Coated Urea (N) Variable %		
Phosphoric Acid (P ₂ O ₅) Variable %		Potential Acidity XX lbs.
Soluble Potash - (K ₂ O) Variable %		Calcium Carbonate per ton.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. **STORAGE:** Store in original, closed container only. In case of leak or spill, contain material and use as directed or dispose of as waste. **PESTICIDE DISPOSAL:** Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **CONTAINER DISPOSAL:** Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill, or by incineration, if allowed by State and local authorities, by burning. If burned stay out of smoke. **HOUSEHOLD:** Do not re-use empty bag. Wrap in several layers of newspaper and put in trash.

NOTICE: Buyer and User assumes all risk and liability of use, storage and/or handling of this product not in accordance with the terms of this label. (83-17amd.P65 \ 04-27-00)

ACCEPTED
with COMMENTS
In EPA Letter Dated
MAY 4 2000

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
8378-17

KNOX FERTILIZER COMPANY, INC.
P.O. BOX 248 - KNOX, INDIANA 46534 U.S.A.