

8378-20

2/28/2003

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



United States Environmental Protection Agency Washington, DC 20460

- Registration
Amendment
Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number: 8378-20
2. EPA Product Manager: Joanne I. Miller
3. Proposed Classification: None
4. Company/Product (Name): Shaw's 18-5-9 Turf Food With XL Crabgrass Control
5. Name and Address of Applicant: Knox Fertilizer Company, P. O. Box, Knox, IN 46534
6. Expedited Review: NA

Section - II

Amendment - Explain below.
Resubmission in response to Agency letter dated
Notification - Explain below.
Final printed labels in response to Agency letter dated
'Me Too' Application.
Other - Explain below.
NOTIFICATION FEB 28 2003

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification of label change relative to PR Notice 2001-6. This notification is consistent with the guidance in PR Notice 2001-6 and the requirements of EPA's regulations at 40 CFR 156.10 and 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product.

Section - III

1. Material This Product Will Be Packaged in:
Child-Resistant Packaging, Unit Packaging, Water Soluble Packaging, 2. Type of Container: Metal, Plastic, Glass, Paper, Other (Specify)
3. Location of Net Contents Information, 4. Size(s) Retail Container, 5. Location of Label Directions, 6. Manner in Which Label is Affixed to Product

Section - IV

1. Contact Point: Robert F. Bischoff, Agent, TotalTurf Consulting LLC, Telephone No. (317) 873-0222
Certification: I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete.
2. Signature: Robert F. Bischoff
3. Title: Agent, TotalTurf Consulting LLC
4. Typed Name: Robert F. Bischoff
5. Date: February 20, 2003
6. Date Application Received (Stamped)

# Shaw's® 18-5-9 Turf Food with XL Crabgrass Control

A herbicide blend for effective long lasting crabgrass control. Contains BENEFIN-plus-TRIFLURALIN. For Use in Lawn and Turf Maintenance Programs which call for One or More Fertilizer plus pre-emergent herbicide applications. For control of crabgrass & other annual weeds as listed.

**ACTIVE INGREDIENTS:**

Benefin; N-butyl-N-ethyl-alpha,alpha,alpha,trifluoro-2,6-dinitro-p-toluidine .....	0.62%
Trifluralin; Alpha,alpha,alpha,trifluoro-2,6-dinitro-N,N-dipropyl-p-toluidine .....	0.30%
<b>OTHER INGREDIENTS:</b> .....	<u>99.08%</u>
<b>TOTAL</b>	<b>100.00%</b>

EPA Reg. No. 8378-20

EPA EST. No. 8378-IN-1

NET WEIGHT 50 LBS. covers up to 13,300 sq. ft.

**GUARANTEED FERTILIZER ANALYSIS**

- Nitrogen-----XX%
- Ammonical (N)-----XX%
- Urea (N)-----XX%
- Sulfur Coated Urea (N)--XX%

- Phosphoric Acid (P2O5)-----XX%
- Soluble Potash (K2O)-----XX%

Primary Plant Food derived from Urea, Sulfur Coated Urea, Muriate of Potash, Ammoniated Phosphate.  
Potential Acidity XX lbs. Calcium Carbonate per ton.

## KEEP OUT OF REACH OF CHILDREN WARNING FIRST AID

**IF SWALLOWED:** Call a Poison Control Center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after 5 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.

**NOTIFICATION**

**FEB 28 2003**

**IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or 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. Do not get in eyes or on clothing. Harmful if absorbed through the skin. Avoid contact with skin, eyes, or clothing. Wear protective eyewear (goggles, face shield or safety glasses). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Prolonged, or frequently repeated skin contact may cause allergic skin reactions in some individuals.

#### Personal Protective Equipment

Users should wear protective clothing such as long pants, long-sleeved shirt, shoes and socks and waterproof gloves. Wear protective eyewear (goggles, face shield, or safety glasses).

#### User Safety recommendations

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 high water 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 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 people or pets to enter the treated area until dusts have settled. If watering is required after the application, do not enter or allow others to enter the treated areas (except those involved in watering) until the watering is complete and the surface is dry. Do not apply this product in a way that will contact any person or pet either directly or through drift. Keep people and pets out of the area during application.

#### **CAN BE USED ON THE FOLLOWING ESTABLISHED TURFGRASSES**

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

AND ZOYSIAGRASS turfgrasses and other ornamental turf. Will not harm most ornamental trees; shrubs when used as directed.

#### WILL CONTROL THE FOLLOWING GRASSY WEEDS

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 (SILVERCRAB OR CROWFOOT), BARNYARDGRASS (WATERGRASS), FOXTAIL (GREEN AND YELLOW) AND ANNUAL BLUEGRASS (POA ANNUA) while providing fertilizer nutrients to the lawn.

#### SEE "WHEN TO APPLY" CHART FOR APPROPRIATE TIMES TO APPLY

Apply to turf 1 to 2 weeks prior to germination of weed seeds since established weeds will not be controlled. Apply only to healthy established turfgrass lawns.

#### 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 use on Dichondra, nor to newly sprigged areas of Bermudagrass, St. Augustinegrass 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 Annuua) and Fine-Leafed Fescue lawns when used at higher rates than 163 lbs. per acre (1.5 lbs. A.I. per acre). Do not overdose.

#### FOR BEST RESULTS APPLY AT THE PROPER TIME

Successful preemergence control of annual grassy weeds as listed requires proper application time. 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 TREATED AREA AFTER APPLICATION

Best results will be obtained if treated areas are irrigated with  $\frac{1}{4}$  to  $\frac{1}{2}$  inch water soon after application. Any cultural practices that disturb the soil such as verticutting, should be done prior to application of this product.

When to use lower and higher application rates in the following directions for use. In general, use the lower rates (i.e. 1.5 or 2 lbs. a.i./acre) when normal weed seed germination is expected. Use the higher rates (i.e. 2 or 3 lbs. a.i./acre) when weed seed germination is expected to be heavy.

#### "SPRING GERMINATING"

#### ANNUAL GRASSES: CRABGRASS, FOXTAIL, BARNYARDGRASS

- A. Northern Turf - use 50 lbs. to treat 10,000 to 13,300 sq. ft. For Northern Cool Season Grasses - For pre-emergence control, apply 163 to 220 lbs. per acre, (equal to 1.5 to 2 lbs. active ingredient/acre) applied in the spring one to two weeks prior to the onset of conditions favorable for annual weedy grass seed germination. One 50 lb. bag will cover 10,000 to 13,300 sq. ft. Use for

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10,000 sq. ft. when turf is completely overrun with weeds. Use for 13,300 sq. ft. when weeds are sparse and the turf is in a yearly lawn maintenance program.

- B. **Southern Turf** - use 50 lbs. to treat 6,700 to 10,000 sq. ft. For Southern warm season turfgrass - For preemergence control apply 220 to 325 lbs. per acre (equal to 2 to 3 lbs. active ingredient per acre), in the late winter or early spring one to two weeks prior to the onset of conditions favorable for annual weedy grass seed germination. One 50 lb. bag will cover 6,700 to 10,000 sq. ft. Use for 6,700 sq. ft. where turf is completely overrun by weeds. Use for 10,000 sq. ft. when weeds are sparse or the 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 Turf** - use 50 lbs. to treat 10,000 sq. ft. For Northern cool season turfgrasses - For preemergence control apply 220 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.
- B. **Southern Turf** - use 50 lbs. to treat 6,700 to 10,000 sq. ft. For Southern warm season turfgrasses - For preemergence control, apply 220 to 325 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 for 6,700 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 areas 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 Turf Grasses** - For preemergence control apply 220 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 50 lb. bag will treat 10,000 sq. ft. of turf grass.
- B. **Southern Warm Season Turf grasses** - For preemergence control apply 325 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. In southern areas where germination continues for extended periods of time a second application at 325 lbs. per acre can be made 6 to 8 weeks after the initial treatment. One 50 lb. bag will treat and feed 6,700 sq. ft. of turfgrass.

### TO RESEED TREATED AREAS

1. Delay reseeding - 6 weeks when applying at the rate of 163 to 220 lbs./acre equal to 1.5 to 2.0 lbs. active ingredient/acre, or when using one 50 lb. bag to cover 10,000 to 13,300 sq. ft.
2. Delay reseeding - 12 to 16 weeks when applying at rate of 325 lbs./acre equal to 3 lbs. of active ingredient per acre or when using one 50 lb. bag to cover 6,700 sq. ft. of turfgrass. When reseeding it may be wise to increase the amount of seed put down by 10%.

### WHEN TO APPLY

\*Approximate "times of the year" when crabgrass etc. weed seeds germinate.

JAN. FEB. MAR. APR. MAY JUNE JULY AUG. SEPT. OCT. NOV. DEC.

NORTHERN TURF

1.//////// 2.//////// 3.//////////

SOUTHERN TURF

4.////////// 5.//////////  
6.////// \*\*6.//////////

Soil moisture % & temperature degrees will change germination periods each year.

1. For crabgrass, foxtail, barnyardgrass in Northern Turf.
2. For goosegrass-Northern Turf.
3. For poa annua in Northern Turf.
4. For crabgrass, foxtail and barnyardgrass in Southern Turf.
5. For goosegrass-Southern Turf.
6. For poa annua in Southern Turf.

\*Apply 1 to 2 weeks before seed germinate in your locale.

\*\*Two applications may be needed during this period to give adequate control.

Two applications per year are usually required to control weeds when germination periods are extended.

### SPREADER SETTINGS

The following spreader settings are for use with new equipment. Old spreaders may need recalibrating. Proper application is based on equipment condition with regard to age and use, also your walking speed and unevenness of the terrain. Do not overlap coverage. Poor control or turf damage can result from uneven or improper application.

Spreader	50# bag per sq. ft.	Northern Lawns	Southern Lawns
		Crabgrass etc. Poa Annua	Crabgrass etc. Poa Annua
Scott #35	13,300	XX	XX
	10,000	XX	XX
	6,700	XX	XX
Cyclone B1	13,300	XX	XX
	10,000	XX	XX
	6,700	XX	XX

50 lbs. to treat 13,300 sq. ft. = 163 lbs./acre = 1.50 lbs. A.I./acre

50 lbs. to treat 10,000 sq. ft. = 220 lbs./acre = 2.00 lbs. A.I./acre

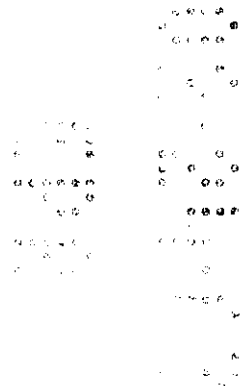
50 lbs. to treat 6,700 sq. ft. = 325 lbs./acre = 3.00 lbs. A.I./acre

**STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal. STORAGE: Store in original, closed container only. PRODUCT DISPOSAL: IF EMPTY: Do not reuse this bag. Place in trash or offer for recycling if available. IF PARTLY FILLED: Call your solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

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.

**KNOX FERTILIZER COMPANY, INC.**  
**P.O. BOX 248**  
**KNOX, IN 46534**  
**NET WEIGHT 50 LBS. (22.7 kg.)**



# Shaw's® 18-5-9 Turf Food with XL Crabgrass Control

A herbicide blend for effective long lasting crabgrass control. Contains BENEFIN-plus-TRIFLURALIN. For Use in Lawn and Turf Maintenance Programs which call for One or More Fertilizer plus pre-emergent herbicide applications. For control of crabgrass & other annual weeds as listed.

**ACTIVE INGREDIENTS:**

Benefin; N-butyl-N-ethyl-alpha,alpha,alpha,trifluoro-2,6-dinitro-p-toluidine .....	0.62%
Trifluralin; Alpha,alpha,alpha,trifluoro-2,6-dinitro-N,N-dipropyl-p-toluidine .....	0.30%
<b>OTHER INGREDIENTS:</b> .....	<u>99.08%</u>
<b>TOTAL</b>	<b>100.00%</b>

EPA Reg. No. 8378-20                      EPA EST. No. 8378-IN-1  
NET WEIGHT 50 LBS. covers up to 13,300 sq. ft.

**GUARANTEED FERTILIZER ANALYSIS**

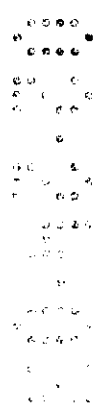
Nitrogen-----XX%  
  Ammonical (N)-----XX%  
  Urea (N)-----XX%  
  Sulfur Coated Urea (N)--XX%  
Phosphoric Acid (P2O5)-----XX%  
Soluble Potash (K2O)-----XX%  
Primary Plant Food derived from Urea, Sulfur Coated Urea, Muriate of Potash, Ammoniated Phosphate.  
Potential Acidity XX lbs. Calcium Carbonate per ton.

**KEEP OUT OF REACH OF CHILDREN  
WARNING  
FIRST AID**

**IF SWALLOWED:** Call a Poison Control Center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after 5 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.





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**IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or 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. Do not get in eyes or on clothing. Harmful if absorbed through the skin. Avoid contact with skin, eyes, or clothing. Wear protective eyewear (goggles, face shield or safety glasses). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Prolonged, or frequently repeated skin contact may cause allergic skin reactions in some individuals.

#### Personal Protective Equipment

Users should wear protective clothing such as long pants, long-sleeved shirt, shoes and socks and waterproof gloves. Wear protective eyewear (goggles, face shield, or safety glasses).

#### User Safety recommendations

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 high water 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 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 people or pets to enter the treated area until dusts have settled. If watering is required after the application, do not enter or allow others to enter the treated areas (except those involved in watering) until the watering is complete and the surface is dry. Do not apply this product in a way that will contact any person or pet either directly or through drift. Keep people and pets out of the area during application.

### CAN BE USED ON THE FOLLOWING ESTABLISHED TURFGRASSES

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, BAHIA GRASS, CENTIPEDE GRASS, FESCUE VARIETIES, ST. AUGUSTINE GRASS

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AND ZOYSIAGRASS turfgrasses and other ornamental turf. Will not harm most ornamental trees; shrubs when used as directed.

#### WILL CONTROL THE FOLLOWING GRASSY WEEDS

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 (SILVERCRAB OR CROWFOOT), BARNYARDGRASS (WATERGRASS), FOXTAIL (GREEN AND YELLOW) AND ANNUAL BLUEGRASS (POA ANNUA) while providing fertilizer nutrients to the lawn.

#### SEE "WHEN TO APPLY" CHART FOR APPROPRIATE TIMES TO APPLY

Apply to turf 1 to 2 weeks prior to germination of weed seeds since established weeds will not be controlled. Apply only to healthy established turfgrass lawns.

#### IMPORTANT PRECAUTIONS IN USING THIS PRODUCT

1. DO NOT apply in the spring to Bermuda grass which as been overseeded with winter grasses (annual rye) since thinning will occur.
2. DO NOT use on Dichondra, nor to newly sprigged areas of Bermudagrass, St. Augustinegrass or Centipedegrass, 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) and Fine-Leafed Fescue lawns when used at higher rates than 163 lbs. per acre (1.5 lbs. A.I. per acre). Do not overdose.

#### FOR BEST RESULTS APPLY AT THE PROPER TIME

Successful preemergence control of annual grassy weeds as listed requires proper application time. 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 TREATED AREA AFTER APPLICATION

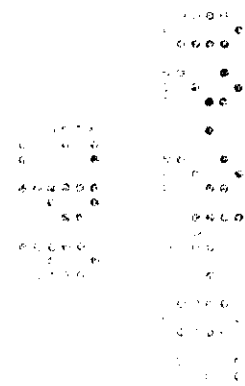
Best results will be obtained if treated areas are irrigated with  $\frac{1}{4}$  to  $\frac{1}{2}$  inch water soon after application. Any cultural practices that disturb the soil such as verticutting, should be done prior to application of this product.

When to use lower and higher application rates in the following directions for use. In general, use the lower rates (i.e. 1.5 or 2 lbs. a.i./acre) when normal weed seed germination is expected. Use the higher rates (i.e. 2 or 3 lbs. a.i./acre) when weed seed germination is expected to be heavy.

#### "SPRING GERMINATING"

##### ANNUAL GRASSES: CRABGRASS, FOXTAIL, BARNYARDGRASS

- A. Northern Turf - use 50 lbs. to treat 10,000 to 13,300 sq. ft. For Northern Cool Season Grasses - For pre-emergence control, apply 163 to 220 lbs. per acre, (equal to 1.5 to 2 lbs. active ingredient/acre) applied in the spring one to two weeks prior to the onset of conditions favorable for annual weedy grass seed germination. One 50 lb. bag will cover 10,000 to 13,300 sq. ft. Use for



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10,000 sq. ft. when turf is completely overrun with weeds. Use for 13,300 sq. ft. when weeds are sparse and the turf is in a yearly lawn maintenance program.

- B. **Southern Turf** - use 50 lbs. to treat 6,700 to 10,000 sq. ft. For Southern warm season turfgrass - For preemergence control apply 220 to 325 lbs. per acre (equal to 2 to 3 lbs. active ingredient per acre), in the late winter or early spring one to two weeks prior to the onset of conditions favorable for annual weedy grass seed germination. One 50 lb. bag will cover 6,700 to 10,000 sq. ft. Use for 6,700 sq. ft. where turf is completely overrun by weeds. Use for 10,000 sq. ft. when weeds are sparse or the 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 Turf** - use 50 lbs. to treat 10,000 sq. ft. For Northern cool season turfgrasses - For preemergence control apply 220 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.
- B. **Southern Turf** - use 50 lbs. to treat 6,700 to 10,000 sq. ft. For Southern warm season turfgrasses - For preemergence control, apply 220 to 325 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 for 6,700 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 areas 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 Turf Grasses** - For preemergence control apply 220 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 50 lb. bag will treat 10,000 sq. ft. of turf grass.
- B. **Southern Warm Season Turf grasses** - For preemergence control apply 325 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. In southern areas where germination continues for extended periods of time a second application at 325 lbs. per acre can be made 6 to 8 weeks after the initial treatment. One 50 lb. bag will treat and feed 6,700 sq. ft. of turfgrass.

**TO RESEED TREATED AREAS**

1. Delay reseeding - 6 weeks when applying at the rate of 163 to 220 lbs./acre equal to 1.5 to 2.0 lbs. active ingredient/acre, or when using one 50 lb. bag to cover 10,000 to 13,300 sq. ft.
2. Delay reseeding - 12 to 16 weeks when applying at rate of 325 lbs./acre equal to 3 lbs. of active ingredient per acre or when using one 50 lb. bag to cover 6,700 sq. ft. of turfgrass. When reseeding it may be wise to increase the amount of seed put down by 10%.

**WHEN TO APPLY**

\*Approximate "times of the year" when crabgrass etc. weed seeds germinate.

JAN. FEB. MAR. APR. MAY JUNE JULY AUG. SEPT. OCT. NOV. DEC.

NORTHERN TURF

1.//////// 2.//////// 3.////////

SOUTHERN TURF

4.////////// 5.//////////

6.////

\*\*6.//////////

Soil moisture % & temperature degrees will change germination periods each year.

1. For crabgrass, foxtail, barnyardgrass in Northern Turf.
2. For goosegrass-Northern Turf.
3. For poa annua in Northern Turf.
4. For crabgrass, foxtail and barnyardgrass in Southern Turf.
5. For goosegrass-Southern Turf.
6. For poa annua in Southern Turf.

\*Apply 1 to 2 weeks before seed germinate in your locale.

\*\*Two applications may be needed during this period to give adequate control.

Two applications per year are usually required to control weeds when germination periods are extended.

**SPREADER SETTINGS**

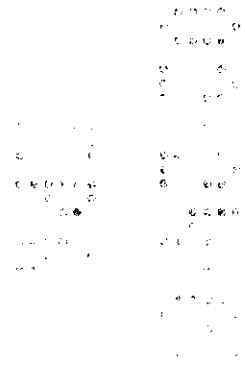
The following spreader settings are for use with new equipment. Old spreaders may need recalibrating. Proper application is based on equipment condition with regard to age and use, also your walking speed and unevenness of the terrain. Do not overlap coverage. Poor control or turf damage can result from uneven or improper application.

Spreader	50# bag per sq. ft.	Northern Lawns	Southern Lawns
		Crabgrass etc. Poa Annua	Crabgrass etc. Poa Annua
Scott #35	13,300	XX	XX
	10,000	XX	XX
	6,700	XX	XX
Cyclone B1	13,300	XX	XX
	10,000	XX	XX
	6,700	XX	XX

50 lbs. to treat 13,300 sq. ft. = 163 lbs./acre = 1.50 lbs. A.I./acre

50 lbs. to treat 10,000 sq. ft. = 220 lbs./acre = 2.00 lbs. A.I./acre

50 lbs. to treat 6,700 sq. ft. = 325 lbs./acre = 3.00 lbs. A.I./acre



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**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 or, 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.

**KNOX FERTILIZER COMPANY, INC.**  
**P.O. BOX 248**  
**KNOX, IN 46534**  
**NET WEIGHT 50 LBS. (22.7 kg.)**

**Inserted: PRODUCT DISPOSAL:**  
**IF EMPTY:** Do not reuse this bag. Place in trash or offer for recycling if available. **IF PARTLY FILLED:** Call your solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

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# KNOX FERTILIZER COMPANY

P.O. BOX 248 KNOX, INDIANA 46534  
PHONE (219) 772-6275 / FAX (219) 772-5878

November 11, 2002

Document Processing Desk  
Office of Pesticide Programs (7504C)  
U.S. Environmental Protection Agency  
Ariel Rios Building  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460

Attention: EPA Pesticide Product Managers

Re: Knox Fertilizer Inc. products except those containing Dimension®  
(EPA Reg. No. 8378-48; 8378-49; 8378-50; 8378-51; 8378-53)

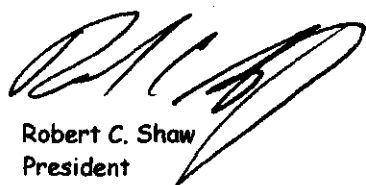
This letter authorizes Dr. Raymond B. Cooper and Mr. Robert F. Bischoff of TotalTurf Consulting, LLC, PO Box 7928, Hilton Head Island, SC 29938, to act on our behalf as agents in regard to the regulatory activities involving the registration of Knox Fertilizer Inc. products except those containing Dimension® under 40 CFR 152.50. Please provide TotalTurf Consulting, LLC with access to our files and information regarding their status and data requirements.

This letter terminates the relationship with H.R. McClane, at 7210 Red Road, Suite 206, Miami Florida, as our agent.

This authorization shall remain in effect until such time as we notify EPA, in writing, of cancellation.

Thank you in advance for your cooperation. Should you have any questions, please call.

Sincerely,



Robert C. Shaw  
President

cc: TotalTurf Consulting, LLC  
PO Box 7928  
Hilton Head Island, SC 29938

H.R. McClane  
7210 Red Road, Suite 206  
Miami, FL 33143-5321

TO: EPA  
FROM: KNOX FERTILIZER COMPANY  
SUBJECT: Dimension®  
DATE: 11/11/02



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**TotalTurf Consulting LLC  
P. O. Box 7928  
Hilton Head Island, SC 29938**

**Direct: 843-785-4211  
Fax: 843-785-8292**

**E-Mail: rbcooper@juno.com**

February 20, 2003

Ms. Joanne I. Miller (PM-23)  
Document Processing Desk (NOTIF)  
Office of Pesticide Programs (7504C)  
U. S. Environmental Protection Agency  
Room 266A, Crystal Mall 2  
1921 Jefferson Davis Highway  
Arlington, VA 22202-4501

Dear Ms. Miller:

**Subject: SHAW'S 18-5-9 TURF FOOD WITH XL CRABGRASS CONTROL  
EPA Reg. No. 8378-20  
Notification to Comply with PR Notice 2001-6**

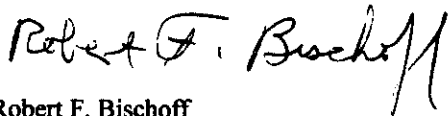
In response to PR Notice 2001-6 concerning required revisions to the storage and disposal statements for pesticide products, labeling for the subject product has been revised to comply with this notice. The revised labels are being submitted via notification on behalf of Knox Fertilizer Company, Inc., P.O. Box 248, Knox, IN 46534 by TotalTurf Consulting LLC, an authorized agent for Knox Fertilizer Company.

The following documents are included in the subject submission:

- Cover Letter
- EPA Form 8570-1
- One Copy of Final Printed Label (Coded as 20030220.final label)
- One Copy of Highlighted Final Printed Label (Coded as 20030220.final label)
- Copy of Authorization Letter for TotalTurf Consulting LLC

If there are any questions concerning this submission, do not hesitate to contact me at (317) 873-0222 or Raymond B. Cooper at (843) 785-4211.

Sincerely,



Robert F. Bischoff  
Agent  
TotalTurf Consulting LLC  
P.O. Box 7928  
Hilton Head, SC 29938

