

8378-64

1/8/2002

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U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (H7505C)  
401 "M" St., S.W.  
Washington, D.C. 20460

EPA Reg. Number:

8378-64

Date of Issuance:

JAN - 8 2002

Term of Issuance:

Conditional

Name of Pesticide Product:

SHAW's TUPERAN  
470 GRANULES

**NOTICE OF PESTICIDE:**  
  X   Registration  
       Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

KNOX FERTILIZER CO.  
P.O. BOX 248  
KNOX, IN 46534

**Note:** Changes in labeling 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 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.

Registration is in no way to be construed as an endorsement or recommendation of this product by the 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.

**This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:**

1. Submit and/or cite all data required for registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.

2. Make the following label changes:

- a. Revise the EPA Registration Number to read, "EPA Reg. No.8378-64".
- b. Provide P.P.E. to be worn by persons applying this product.

Signature of Approving Official:

Date:

JAN - 8 2002

# SHAW'S TUPERSAN® 470 GRANULES

EPA Reg. No. 8378- EPA Est. No. 8378-IN-1

Contains TUPERSAN®

PRE-EMERGENCE HERBICIDE GRANULES

MAY BE USED ON newly SEEDED LAWNS.

PARKS, and GOLF COURSE grasses AS LISTED.

**ACTIVE INGREDIENT:**

Siduron\* ..... 4.7%

OTHER INGREDIENTS ..... 95.3%

\*CAS [1982-49-6] Total 100.0%

Tupersan® is a Reg. T.M. of the Gowan Company  
Original U.S. Patent No. 3,309,192



Crabgrass

Label Page 1 of 2  
ACCEPTED  
with COMMENTS  
In EPA Letter Dated  
JAN - 8 2002  
Page 5 of 18  
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Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.

8378-64

**WHERE TO USE**

For use on newly seeded or established plantings of the following grasses: Kentucky Bluegrass - Fescues, (tall and turf types), Redtop, Perennial Ryegrass, Zoysiagrass, Smooth Brome, Orchardgrass, Reed Canarygrass, and Certain Bentgrass strains as follows; Penncross, Seaside, Highland, Astoria, Nimisila, C1, C7, and C-19. Do not use on OTHER Bentgrass since INJURY MAY OCCUR! Do not use on BERMUDAGRASS OR DI-CHONDRA LAWNS. This product will not control POA ANNUA. (annual bluegrass), and it will not control established, growing, weeds. See section "KNOW YOUR TYPE OF SOIL."

**HOW MUCH, WHERE, and WHEN TO USE**

**FOR NEWLY SEEDED LAWNS, PARKS, GOLF COURSES**

For a single application Apply as the final operation after seeding in the spring and 2 weeks prior to weed seed germination. apply 2 to 6 lbs. a.i. per acre equal to 1 to 3 lbs. of this product per 1,000 sq.ft.

For a split application Apply the first application as the final operation after seeding in the spring and 2 weeks prior to weed seed germination. Apply 3 to 6 lbs. a.i. per acre equal to 1.5 lbs. to 3 lbs. per 1,000 sq.ft. For the second (or split) application follow in 4 weeks with an application of 2 to 3 lbs. a.i. per acre equal to 1 to 1.5 lbs. per 1,000 sq.ft. Follow good cultural practices of keeping the area moist to help grass seed germinate and to activate the pre-emergent herbicide.

See the section on Application Schedule and RAINFALL or IRRIGATION on this label.

**FOR ESTABLISHED LAWNS, PARKS, GOLF COURSES**

make a single application to established turf or to turfgrass which has received fall seeding. Apply in the spring prior to the expected germination of annual weed seed grasses. Apply; 8 to 12 lbs. of a.i. per acre equal to 4 lbs. to 5.9 lbs. of this product per 1,000 sq.ft.

Spring application timing will vary from early February in the South to March in the north. Follow the application with a thorough watering (1/4 to 1/2 inch) to activate the herbicide.

**HOW TO APPLY**

To insure best weed control and proper fertilization, the lawn should be free of leaves, grass clippings or thatch which might interfere with the pre-emergence action of the herbicide. Complete all cultural practices such as aerification before application. Apply with a properly calibrated Fertilizer Spreader. Follow the watering in procedure after application. **IMPORTANT:** See section on Know Your Type of Soil.

**APPLICATION TIMING CHART** ////////////////

THESE ARE TIMES TO APPLY FOR ANNUAL WEED SEED CONTROL  
JAN. FEB. MAR. APR. MAY JUNE JULY AUG. SEPT. OCT. NOV. DEC.

**1. Northern Lawns**

1.////////// (Last of March to middle of May)

**2. Southern Lawns**

2.////////// (Mid February to middle of May)

- 1. Northern lawns: For Crabgrass, Foxtail, & other listed Grassy Weeds.
- 2. Southern lawns: Weeds germinate earlier in the Southern States. Apply earlier (as above) for Crabgrass, Foxtail, & other listed Weeds.

**SPREADER SETTINGS**

Apply this product with drop or rotary-type spreaders designed to accurately apply granular herbicides. Before application, check the spreader calibration according to the equipment manufacturer's manual. Make sure that the spreader delivers the exact application rate chosen from the recommendations in Table #1 on this label. .... **OTHER WISE DO NOT APPLY.**

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

**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.

**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. Have this product container or label with you when calling a poison control center, or doctor, or when going for treatment.

See additional Precautionary Statements on this label.

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION:** Harmful if swallowed. May irritate eyes, nose, throat and skin. Avoid breathing dust. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling and before eating or smoking. Do not contaminate feed or foodstuffs. Do not use on turf to be used for feed or food purposes.

**ENVIRONMENTAL HAZARDS**

Do not contaminate water by cleaning of equipment or disposal of wastes. This product is toxic to fish. Do not apply to any body of water. Do not apply where run-off is likely to occur. Do not apply when weather favors drift from treated areas.

**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 turfgrass being grown for sale or other commercial use, or for commercial seed production, or for research purposes.

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal. **STORAGE:** Store product in its closed original container in a cool, dry, locked place out of reach of children. **PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved wastes 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 disposal.

Net Weight (20; 10; 20; 40; 50) Pounds

**KNOX FERTILIZER COMPANY**

**P/O. BOX 248 KNOX IN 46534**

SPREADER SETTINGS for the POUND RATES PER 1,000 SQ.FT.					
SPREADER MAKE	1 lbs.	1.50 lbs.	3 lbs	4 lbs.	5.9 lbs.
SCOTT "DROP TYPE"	Xx	Xx	Xx	Xx	Xx
CYCLONE B-1	XX	XX	XX	XX	XX

**When used as Directed this product Will Not Harm Your Desirable Lawn Grass Seeds as listed on this product label ... Yet Kills Annual Weed Grasses Such As Smooth and Hairy Crabgrass - Foxtail Weed Grasses - and Barnyardgrass (Watergrass) .**

**FOR USE ON HOME LAWNS, GOLF COURSES, PARKS, ROADSIDES, ATHLETIC FIELDS and ALL ORNAMENTAL AND RECREATIONAL TURFGRASS.**

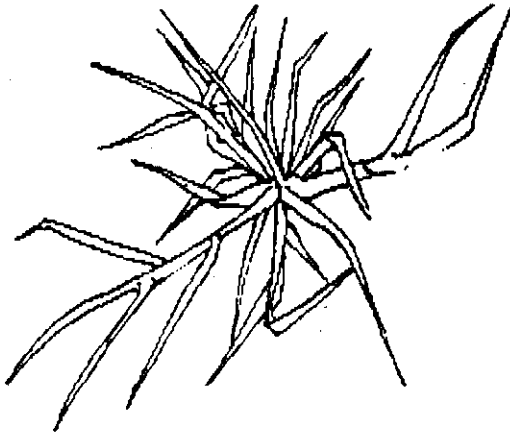
**NOT FOR USE ON Bermudagrass or Dichondra lawns.**

**RESEEDING THE TREATED AREAS.**

This product may be applied to the soil at the same time as sowing the listed varieties of grass seeds or the listed varieties of grass seed may be sown after the product has been applied. When used as directed on listed the turfgrasses this product will not affect the germination of those desirable grass seeds.

**WEEDS CONTROLLED WITH THIS PRODUCT Annual Weed Grasses such as:**

- Crabgrass (smooth, large, hairy),**
- Foxtail (green, yellow and giant),**
- Downy Bromegrass,**
- Barnyardgrass**
- Orchardgrass.**



**Crabgrass (smooth, large, hairy),**

**CONDITIONS OF SALE**

Read the entire Directions for Use, Conditions, Disclaimer of Warranties, and Limitation of Liability before using this product. If the terms are not acceptable, return the unopened container at once. By using this product, user and buyer accept the following Conditions, Disclaimer of Warranties and Limitations of Liability.

**CONDITIONS:** The directions for use of this product are believed to be adequate and should be followed carefully. However it is impossible eliminate all risks associated with the use of this product. Injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Knox Fertilizer Co. Inc.

All such risks shall be assumed by the user or buyer. Disclaimer of Warranties: There are no warranties express or implied, of merchantability or of fitness for a particular purpose or otherwise, which extend beyond the statements made on this label. No agent of Knox Fertilizer Co. Inc. is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein.

Knox Fertilizer Co. Inc. disclaims any liability whatsoever for special, incidental, or consequential damages resulting from the use or handling of this product.

**LIMITATION OF WARRANTIES:** The exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price, or at Knox Fertilizer Co. Inc. option, the replacement of the product.

**KNOW YOUR TYPE OF SOIL: CLAY? SANDY? ORGANIC? DIFFERENT TYPES OF SOIL MAY REQUIRE AN ADJUSTED RATE** Soil adsorption of this herbicide increases with higher organic matter or higher clay contents. Soils with high organic matter levels require higher dosage rates than soils with low organic matter and also soil textures with high clay content require higher usage rates than soil textures with low clay content for equal performance.

**APPLICATION SCHEDULE and RAIN FALL or IRRIGATION** This product may be applied to the turf before emergence of weeds and will control susceptible weed seedlings for an extended period. Preemergent applications of this product can be made after sowing seed and before the emergence of grass seedlings. Water is required to activate the herbicide following these applications. Either Rainfall or irrigation (1/2 inch) must be provided within three days to optimize the weed control. See the Split application for newly seeded lawns in TABLE #1.

**TABLE #1 APPLICATIONS RATES FOR LAWNS, GOLF COURSES, PARKS, AND ORNAMENTAL TURFGRASSES Tolerant Turfgrass Species**

**Bentgrass (Creeping), Bentgrass Colonial), Fescue; ( Tall and Turf Type ), Kentucky Bluegrass, Perennial Ryegrass, Mixtures of Kentucky Bluegrass, Perennial Ryegrass and Fescues.....**

when to apply	Application Schedule	Pounds of product to apply / 1,000 sq.ft. equal to pounds of a. i. per Acre
For use in the spring at the time of sowing seed, use these rates and methods	A Single application	1 # to 3 # of product per 1,000 sq.ft. equal to 2 # to 6 # a.i. per Acre
	A Split application Apply second application four weeks after the first one.	1.5 # to 3 # product per 1,000 sq.ft. equal to 3 # to 6 # a.i. per Acre Use the following rates for second application in 4 weeks 1 # to 1.5 # product per 1,000 sq.ft. equal to 2 # to 3# a.i. per Acre
Fall Seeding and Established lawns	Apply a Single application	4 # to 5.9 # product per 1,000 sq.ft. equal to 8 # to 12 # a.i. per Acre

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