

U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES PROGRAMS
REGISTRATION DIVISION (75-767)
WASHINGTON, DC 20460

EPA REGISTRATION NO.

8378-40

DATE OF ISSUANCE

21 SEP 1993

TERM OF ISSUANCE

Conditional, Expires: January 1, 1995

NAME OF PESTICIDE PRODUCT

SHAW'S TURF FOOD/CRABGRASS CONTROL
BARRICADE 30

NOTICE OF PESTICIDE:

REGISTRATION
 REREGISTRATION

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

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

KNOX Fertilizer Company
P.O. Box 248
Knox, IN 46534

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.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(C) provided that you:

1. Add the phrase "EPA registration no. 8378-40" to the label before you release the product for shipment.
2. revise the Environmental Hazards Statement, second sentence to read: "At the limit". not limits.
3. Submit analysis of formulations containing nitrates or nitrites to show the level of nitrosamines that may be present. Data must be submitted within 1 year from the date of registration.
4. submit five (5) copies of the final printed labeling before you release the product for shipment.

and provided that Sandoz Agro, Inc., the manufacturer of the active ingredient of this product, submits the required data to continue the registration of profluminaf as listed in the EPA Fact Sheet NO. 231.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 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.

BEST AVAILABLE COPY

Joanne I. Miller
Product Manager (23)
Fungicide-Herbicide Branch
Registration Division (R-7565C)

Enclosure

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

Joanne I. Miller

DATE

21 SEP 1993



TURF FOOD / CRABGRASS CONTROL

2 of 3

Barricade 38

Page 6 of 21

For Selective Preemergence Control of Grass and Broadleaf Weeds in Established Turf Grasses (excluding golf course putting greens), Lawns and Landscape Ornamentals

ACTIVE INGREDIENT:

Proflaminate [N,N'-Di-n-propyl-2,4-dinitro-6-(trifluoromethyl)-m-phenylenediamine] - 0.38%

INERT INGREDIENTS: - - - - - 99.62%

Total 100.00%

KEEP OUT OF REACH OF CHILDREN CAUTION

See the following section, Precautionary Statements, Hazards to Humans and Domestic Animals, for additional information. Barricade® is a Registered Trademark of Sandoz, Ltd.

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

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS and DOMESTIC ANIMALS

CAUTION: Causes moderate eye injury (irritation). Harmful if inhaled or absorbed through the skin. Avoid contact with skin, eyes, or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling. Prolonged or frequent repeated skin contact while handling the material may cause allergic reactions in some individuals.

Statements of Practical Treatment

On Eyes: Flush thoroughly with water for several minutes. **On Skin:** Wash with soap and water. Rinse thoroughly. Get medical attention if irritation persists. **Inhaled:** Remove victim to fresh air.

ENVIRONMENTAL HAZARDS

This product has low solubility in water. At the limits of solubility, this product is not toxic to fish. However at concentrations above the level of water solubility, it may be toxic to fish. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. Do not contaminate water when disposing of equipment washwaters.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. **STORAGE:** Store in original container away from other fertilizer, feed or foodstuffs, and separated from other pesticides. **PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **CONTAINER DISPOSAL:** Do not reuse empty bag. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or at an incineration facility, or if allowed by State and local authorities, by burning locally. If burned stay out of smoke.

DIRECTIONS FOR USE

In accordance with Federal law to use this product in a manner consistent with its labeling. This product is a turf fertilizer and a selective preemergence herbicide that provides residual control of many grass and broadleaf weeds in turf.

MAXIMUM ANNUAL RATES

This product should not be applied above a maximum annual rate of 395 lbs. per acre or 9 lbs. per 1,000 sq.ft.

Turf Species and Rates

For season long control this product may be applied as a single application, or if needed followed by a second application for increased length of control. The length of time of residual weed control provided by this product is related to the rate applied. Use the higher rate within the listed range for longer control. Longer control is desirable in areas where crabgrass germinates between January 1 and April 20 (See Crabgrass Seed Germination Data Map). Select maximum use rate based on turfgrass species. All applications must be made prior to germination of the target weed seeds. This product will not control established weeds. The rates listed in the table below are for weed control of approximately 2 to 6 months.

Turf Species and Rates Table

Turf Species	Maximum Rate of product for Calendar Year lbs./acre (lbs./1,000 sq.ft.)
Bermudagrass*	395 lbs.(9 lbs.)
Centipede grass	-
Seashore Paspalum	-
Tall Fescue	-
Zoysia	-
Kentucky Bluegrass	263 lbs.(6 lbs.)
Perennial Ryegrass	-
Creeping Red Fescue	200 lbs.(5 lbs.)
St. Augustinegrass	-
Creeping Bentgrass	180 lbs.(4.2 lbs.)

*May be used on newly sprigged or plugged Bermudagrass at rates not to exceed 130 lbs. product/acre(3 lbs./1,000 sq.ft.). Newly sprigged or plugged Bermudagrass stolon rooting may be temporarily retarded. Suppression only of Foxtail, Goosegrass and Rescuegrass due to reduced product rates used in sprigging situations. Do not apply more than 200 lbs. per application nor more than 395 lbs. per calendar year. If making more than one application, do not apply more than 200 lbs. within any 60 day period. Use higher rates to achieve higher levels of fertility and weed control for each turf type.

WEEDS CONTROLLED

When used at the recommended rates (see Turf Species and Rates Table) this product will control the following weeds.

- | | |
|------------------------------|--------------------------|
| Crabgrass (Large,Smooth) | Carpenterweed |
| Annual Bluegrass (Poa Annua) | Common Chickweed |
| Goosegrass (1) | Common Lambsquarter |
| Annual Foxtail - Yellow | Common Purslane |
| Barnyardgrass | Henbit |
| Broadleaf Signalgrass | Knotweed |
| Johnsongrass (from seed) | Pigweed |
| Rescuegrass (3) | Prostrate Spurge |
| | Shepherdspurse(2) |
| | Yellow Sorrel(from seed) |

Do not exceed the maximum annual application rates recommended for the turf species. All applications must be made prior to germination of weed seeds. This product will not control established weeds. (1) In many areas a single application of 180 to 200 lbs./A will control Goosegrass. However under heavy

Use the following Overseeding / Reseeding Intervals Table as a guide for each situation.

Overseeding/Reseeding Intervals Table

lbs./Acre of product	Overseeding/Reseeding Interval (Months) Based Upon Seeding Method and Predominant Soil Conditions for the Season			
	Broadcast Seeding Wet & Warm	Cast & Dry	Drill Seeding Wet & Warm	Cast & Dry
130	4 mos.	6 mos.	3 mos.	4 mos.
200	8 mos.	12 mos.	6 mos.	8 mos.
395	12 mos.	18 mos.	9 mos.	12 mos.

LANDSCAPE ORNAMENTALS

This product is recommended for use on landscape ornamentals. Do not apply more than 200 lbs./Acre in any 60 day interval, and do not exceed the maximum rate per calendar year of 395 lbs./Acre. This product will not harm most established ornamental trees, shrubs, and flowers. The following species have shown tolerance to this herbicide.

Scientific Name	Common Name
Acer palmatum	Japanese Maple
Acer platanoides	Norway Maple
Actinidia chinensis	Kiwi*
Agapanthus africanus	Lily Of the Nile
Arctostaphylos densiflora	Vine Hill Manzanita
Arctotheca crenulata	Cape Weed
Aucuba japonica	Japanese Aucuba
Barberis gladyensis	----
B. julianae	Wintergreen Barbary
B. mentonensis	Mentor Barbary
B. thunbergii	Japanese Barbary
B. verruculosa	Warty Barbary
Buxus microphylla	Japanese Boxwood
Callistemon viminalis	Weeping Bottlebrush
Calluna vulgaris	Scotch Heather
Carpobrotus edulis	Hottentot Fig(ice Plant)
Cassia artemisioides	Feathery Cassia
Ceanothus rigidus	Wild Lilac
Chamaecyparis pisifera	False Cypress
Cleyera japonica	Cleyera
Cornus florida	Flowering Dogwood
C. stolonifera	American Dogwood
Cortaderia selloana	Pampas Grass
Cotoneaster apiculatus	Cranberry Cotoneaster
C. bursifolius	----
C. dammeri	Barberry Cotoneaster
C. microphyllus	Rockspray Cotoneaster
Cupressus sempervirens	Italian Cypress
Dalekperma alba	White Trailing Ice Plant
Dodonaea viscosa	Hop Bush
Elaeagnus pungens	Silverberry
Euonymus fortunei	Wintercreeper Euonymus
E. japonica	Evergreen Euonymus
E. kiautschovica	Spreading Euonymus
Fatsia japonica	Japanese Aralia
Forsythia intermedia	Border Forsythia
F. viridissima	Greenstem Forsythia
Gardenia jasminoides	Gardenia, Cape Jasmine
Hedera helix	English Ivy
Hibiscus rosa-sinensis	Chinese Hibiscus
Ilex cornuta	Chinese Holly
I. crenata	Japanese Holly
I. opaca	American Holly
I. pernyi	----
Jasminum nudiflorum	Winter Jasmine
Juniperus chinensis	Chinese Juniper
J. conferta	Shore Juniper
J. horizontalis	Creeping Juniper

ACCEPTED
with COMMENTS
in EPA Letter Dated
21 SEP 1993

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, and the pesticide
registered under EPA Reg. No.
8378-40

BEST AVAILABLE COPY

