

Reg # 2491-339

PM-23

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

EPA REGISTRATION NO.

2491-339

DATE OF ISSUANCE

25 SEP 1992

TERM OF ISSUANCE

Conditional, Expires: January 1, 1995

NOTICE OF PESTICIDE: ☒ REGISTRATION  
☐ REREISTRATION

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

NAME OF PESTICIDE PRODUCT

KUOS Crabgrass Preventer with  
0.574 Barricade<sup>®</sup> Preemergence  
Herbicide

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

KUOS, Inc  
4500 13th Court  
Kenosha, WI 53140

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 r1fna section 5(c)(7)(c) provided that you:

1. Submit nitrosamine data to fulfill the regulations requiring a discussion of the formation of impurities (Code of Federal Regulations, 40: Section 167(b)) within one year of the date of this notice.
2. Add the phrase "EPA Registration No. 2491-339" to the label before you release the product for shipment.
3. 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 proflumicarb 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 r1fna section 5(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

enclosure

Joanne I. Miller  
Product Manager (23)  
Fungicide-herbicide branch  
Registration Division (P-75050)



ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

Joanne I. Miller

DATE

9/24/92

## For Selective Preemergence Control of Grass and Broadleaf Weeds in Established Turf Grasses and Landscape Ornamentals

### ACTIVE INGREDIENT

Proflamline [N,N-Di-*n*-propyl-2,4-dinitro-6-(trifluoromethyl)-*m*-phenylenediamine] - 0.574%  
 INERT INGREDIENTS: - - - - - 99.426%  
 Total 100.000%

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**

See Side Panel for Additional Precautionary Statements  
 Barricade® is a registered trademark of Sandoz, Ltd.  
 EPA Reg. No. 2491- EPA Est. No. 2491-WI-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 frequently repeated skin contact while handling the material may cause allergic reactions in some individuals.

#### Statements of Practical Treatment

**Eyes:** Flush thoroughly with water for several minutes. Get medical attention if irritation persists.  
**On Skin:** Wash with soap and water. Rinse thoroughly. Get medical attention if irritation persists.  
**If 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 and 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 use of empty bag in a sanitary landfill or at an incineration facility, or if allowed by State or local authorities, by burning. If burned stay out of smoke.

#### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent 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 grasses and landscapes. It controls susceptible weeds by inhibiting weed seeds germination and root development. For most effective weed control it must be incorporated by 1/2 inch of rainfall, irrigation, or shallow mechanical incorporation. Incorporation should take place as soon as possible after application and should not be delayed past 14 days from the date of application. Do not apply this product through any type of irrigation system. Do not apply aerially.

#### APPLICATION DIRECTIONS

Apply uniformly through suitable, calibrated commercial application equipment.

This product is a selective preemergence herbicide that, when properly applied, will control certain grass and broadleaf weeds in established grass turf. The species of turf grass determines the maximum amount of material that may be applied during a year. Most effective weed control in turf grasses will be obtained when this product is activated by at least 1/2 inch of rainfall or irrigation within 14 days after application and prior to weed germination. See the map below for approximate crabgrass germination dates.

### CRABGRASS SEED GERMINATION DATES

### TURF SPECIES AND RATES (Cont.)

Select maximum use rate based on turf grass species. All applications must be made prior to germination of the target weed seeds. The rates listed in the table below are for weed control of approximately 2 - 6 months.

#### Turf Species and Rates Table

Turf Species	Minimum & Maximum Rate lbs. / Acre / Calendar Year
Bermudagrass	55 to 260 lbs.
Centipedegrass	-
Seashore Paspalum	-
Tall Fescue	-
Zoysia	-
Perennial Bluegrass	55 to 175 lbs.
Perennial Ryegrass	-
Creeping Red Fescue	55 to 130 lbs.
St. Augustinegrass	-
Creeping Bentgrass min 1/2"	55 to 115 lbs.
Bermudagrass, newly sprigged or plugged <sup>(1)</sup>	55 to 90 lbs.

<sup>(1)</sup> Suppression only of Foxtail, Goosegrass & Rescuegrass due to reduced product rates. Do not apply more than 130 lbs. of product per application. Do not make more than 2 applications per calendar year. Do not apply more than 260 lbs. of product per calendar year. If making two applications, wait at least 60 days after the first application before making a second application. Use higher rates of this product 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:

Annual Bluegrass	Knotted
Common Chickweed (1)	Oxalis
Crabgrass - (Large, Smooth)	Prostrate Spurge
Foxtail - (Yellow, Green)	Rescuegrass (3)
Goosegrass (2)	Sheepspurge (1)
Henbit	

(1) Fall application. (2) For best control of goosegrass apply 130 lbs. / acre. Sixty days later make a second application with 45 to 130 lbs. / acre of product (see information in Turf Species and Rates section above). (3) Suppression Only.

### OVERSEEDING/RESEEDING

This product will inhibit germination of turf species if overseeded / reseeded too soon after application. The interval between application and overseeding/reseeding is dependent on the application rate, soil temperature, and the soil moisture. ....(cont. on next panel) .....

**NOTICE:** Buyer and user assume all risk and liability of use, storage and/or handling of this product not in accordance with the terms of this label.

#### GUARANTEED FERTILIZER ANALYSIS

Total Nitrogen (N)	32%
Available Phosphoric Acid (P <sub>2</sub> O <sub>5</sub> )	4%
Soluble Potash (K <sub>2</sub> O)	6%
Ingredients: Urea formaldehyde, Urea, Sulfur Coated Urea, Ammoniated Phosphate, Muriate of Potash	

SPREADER SETTINGS				
Approx. pounds of product to apply per 1,000 sq. ft.				
Spreader	2.81,000	3.81,000	4.81,000	6.81,000
Cyclone B-1	28	30	34	41
Ortho Drop	35	40	425	575
Scotts Drop	35	55	625	7.0

### Net Weight 25 Pounds

### ESTABLISHED TURF

This product is a selective preemergence herbicide that, when properly applied, will control certain grass and broadleaf weeds in established grass turf. The species of turf grass determines the maximum amount of material that may be applied during a year. Most effective weed control in turf grasses will be obtained when this product is activated by at least 1/2 inch of rainfall or irrigation within 14 days after application and prior to weed germination. See the map below for approximate crabgrass germination dates.

### Overseeding/Reseeding (Cont.)

A shorter interval is possible if growing conditions are warm and wet, while a longer interval is needed if conditions are cool and dry. Use the following Overseeding/Reseeding Intervals Table as a guide when choosing the appropriate overseeding/reseeding interval for each situation. The table below lists the Overseeding/Reseeding Intervals (Months) Based Upon Seeding Method and Predominant Soil Conditions for the Season.

#### Overseeding/Reseeding Intervals Table

lbs./Acre of product	Broadcast Seeding		Drill Seeding	
	wet & warm	cool & dry	wet & warm	cool & dry
55 to 90	4 mos.	6 mos.	3 mos.	4 mos.
91 to 175	8 mos.	12 mos.	6 mos.	8 mos.
176 to 260	12 mos.	18 mos.	9 mos.	12 mos.

### LANDSCAPE ORNAMENTALS

This product will not harm most established ornamental trees, shrubs and flowers when applied to surrounding areas in accordance to the directions given in the Turf Species and Rates section. The following species have shown tolerance to this product.

Acer Palmatum	Japanese Maple
Acer Platanoides	Norway Maple
Actinidia chinensis	Kiwi
Agapanthus africanus	Lily-Of-The-Nile
Arctostaphylos densiflora	Vine Hill Manzanita
Arctostaphylos californica	Cape Weed
Aucuba japonica	Japanese Aucuba
Berberis gladiolensis	
B. julianae	Wintergreen Barberry
B. mentorensis	Mentor Barberry
B. thunbergii	Japanese Barberry
B. verruculosa	Warty Barberry
Buxus microphylla	Japanese Boxwood
Callistemon viminalis	Weeping Bottlebrush
Calluna vulgaris	Scotch Heather
Carpobrotus edulis	Hotterlot 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
Coloneaster apiculatus	Cranberry Coloneaster
C. bicolor	
C. dammeri	Bearberry Coloneaster
C. microphylla	Rockspray Coloneaster
Cupressus sempervirens	Italian Cypress
Delaspermia alba	White Trailing Ice Plant
Dodonaea viscosa	Hop Bush
Elaeagnus pungens	Silverberry
Eucymus fortunei	Wintercreeper
E. japonica	Evergreen Eucymus
E. lauschaensis	Spreading Eucymus
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
Hieracium	Chinese Holly
I. crenata	Japanese Holly
I. opaca	American Holly
I. pumila	Perry Holly
Jasminum nudiflorum	Winter Jasmine
Juglans sp.	Walnut
Juniperus chinensis	Chinese Juniper
J. conferta	Shore Juniper
J. horizontalis	Climbing Juniper
Justicia brandegeana	Shrimp Plant
Lagerströmia indica	Cape Myrtle
Ligustrum japonense	Agur Privet
L. japonicum	Japanese Privet
L. lucidum	Glossy Privet
Liriodendron	Big Blue Lily Turf
Lonicera japonica	Japanese Honeysuckle
L. tatarica	Tatarian Honeysuckle
Maleophris laevis	Ice Plant
Mahoe sp.	Crabapple
Nandina domestica	Heavenly Bamboo
Olea europaea	Olve
Ophir x O. japonica	Mondo Grass
Ostrya virginica	Trifling African Daisy
Oxydendrum arboreum	Scotch Honeysuckle
Penstemon americana	Penstemon
Phlox paniculata	Phlox
Picea abies	Norway Spruce
Pieris japonica	Lily-of-the-Valley Shrub
Pinus brutia	Aleppo Pine, Var.
P. canariensis	Canary Island Pine
P. halepensis	Calabrian Pine
P. nigra	Austrian Black Pine
P. radiata	Montrose Pine
P. thunbergiana	Japanese Black Pine
P. strobus	Eastern White Pine
P. sylvestris	Scotch Pine
Pistachia sp.	Pistachio

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\*Ornamental species Only Do not use on food producing trees or vines