

PM 23

59144-13

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

EPA REGISTRATION NO.

DATE OF REGISTRATION
23 SEP 1992

TERM OF ISSUANCE

CONDITIONAL, 12, 1992; JANUARY 1, 1993

NAME OF PESTICIDE PRODUCT

Fenington Chlorpyrifos Preventer 30
with fertilizer preemergence
pesticide

NOTICE OF PESTICIDE: REGISTRATION
 REREGERISTRATION
(Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended)

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

ORC TEC, INC.
P.O. BOX 250
MADISON, WI 53750

BEST AVAILABLE COPY

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 5(c)(7)(C) provided that you:

1. submit additional data to fulfill the requirements regarding a discussion of the formation of impurities (code of federal regulations, 40: section 155.107(d)) within one year of date of this notice.
2. add the phrase "EPA registration no. 59144-13" 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 providing that SANDOZ AGRO, INC., the manufacturer of the active ingredient of this product, submits the required data to continue the registration of proflarone 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.

Joanne L. Miller
Product Manager (23)
Fungicide-Herbicide Branch
Registration Division (A-7505C)

ENCLOSURE

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

Joanne L. Miller

DATE

9/23/92



CRABGRASS PREVENTER 38 with FERTILIZER

Contains 0.38% **Barricade**® Preemergence Herbicide

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

ACTIVE INGREDIENT:

Proflumina [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 Side Panel for Additional Precautionary Statements
 Barricade® is a registered trademark of Sandor, Ltd.
 EPA Reg. No. 59144-RG EPA Est. No.59144-GA-1

PRECAUTIONARY STATEMENTS

HAZARD 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
If in Eyes: Flush thoroughly with water for several minutes. Get medical attention if irritation persists.
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 dispose of empty bag in a sanitary landfill or at an incineration facility, or as directed 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.

ESTABLISHED TURF

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	Minimum & Maximum Rate Lbs./Acre/Calendar Year
Bermudagrass	85 to 395 lbs.
Centipedegrass	"
Seashore Paspalum	"
Tall Fescue	"
Zoysia	"
Perennial Bluegrass	85 to 265 lbs.
Perennial Ryegrass	"
Creeping Red Fescue	85 to 195 lbs.
St. Augustinegrass	"
Creeping Bentgrass min 1/2"	85 to 175 lbs.
Bermudagrass; newly sprigged or plugged ⁽¹⁾	85 to 137 lbs.

⁽¹⁾ Suppression only of Foxtail, Goosegrass & Rescuegrass due to reduced product rates. Do not apply more than 197 lbs. of product per application. Do not make more than 2 applications per calendar year. Do not apply more than 395 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) | Shepardspurge (1) |
| Henbit | |

(1) Fall application. (2) For best control of goosegrass apply 197 lbs. / acre. Sixty days later make a second application with 65 to 197 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 ₂ O ₅)	4%
Soluble Potash (K ₂ O)	6%

Ingredients: Urea formaldehyde, Urea, Sulfur Coated Urea, Ammoniated Phosphate, Muriate of Potash

Net Weight 50 Pounds

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.

lbs./Acre of product	Broadcast Seeding		Drill Seeding	
	wet & warm	cool & dry	wet & warm	cool & dry
85 to 130	4 mos.	6 mos.	3 mos.	4 mos.
131 to 265	8 mos.	12 mos.	6 mos.	8 mos.
266 to 395	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 | Kivi* |
| Agapanthus africanus | Lily-Of-the-Nile |
| Arctostaphylos densiflora | Vine Hill Manzanita |
| Arctotheca calendula | Cape Weed |
| Aucuba japonica | Japanese Aucuba |
| Barbarts glaberrima | Wintergreen Barbary |
| B. julianae | Mentor Barbary |
| B. mentorensis | Japanese Barbary |
| B. thunbergiana | Warty Barbary |
| B. varuculosa | Japanese Boxwood |
| Buxus microphylla | Weeping Buttebrush |
| Callistemon viminalis | Scotch Heather |
| Calluna vulgaris | Hotnetot Fig (Ice Plant) |
| Carpopobrotus edulis | Feathery Cassia |
| Cassia artemisioides | Wild Lilac |
| Ceanothus rigidus | Sawara Cypress |
| Chamaecyparis plicata | Cleyera |
| Cleyera japonica | Flowering Dogwood |
| Cornus florida | Red-Osier Dogwood |
| C. stolonifera | Pampas-Grass |
| Cortaderia selloana | Cranberry Cotoneaster |
| Cotoneaster apiculatus | |
| C. buxifolia | Bearberry Cotoneaster |
| C. dammeri | Rockspray Cotoneaster |
| C. microphylla | Italian Cypress |
| Cupressus sempervirens | White Trailing Ice Plant |
| Delepernia alba | Hex Bush |
| Dodonaea viscosa | Willowberry |
| Elaeagnus pungens | Evergreen Euonymus |
| Euonymus fortunei | Spreading Euonymus |
| E. japonica | Japanese Aralia |
| E. kiuschovica | Border Forsythia |
| Fatsia japonica | Gronstem Forsythia |
| Forsythia intermedia | Gardenia, Cape Jasmi. & |
| F. vidiolima | English Ivy |
| Gardenia jasminoides | Chinese Hibiscus |
| Hedera helix | Chinese Holly |
| Hibiscus Rosa-sinensis | Japanese Holly |
| Ilex cornuta | American Holly |
| I. crenata | Palm Holly |
| I. opaca | Winter Jasmine |
| I. pedunculata | Walnut* |
| Jasminum nudiflorum | Chinese Juniper |
| Juglans sp. | Shrub Juniper |
| Juniperus chinensis | Creeping Juniper |
| J. conferta | Strawberry Plant |
| J. horizontalis | Crape Myrtle |
| Justicia brandegeana | Amur Olive |
| Lagerstroemia indica | Japanese Privet |
| Ligustrum amurense | Glossy Privet |
| L. japonicum | Big Blue Lily Turf |
| L. lucidum | Japanese Honeysuckle |
| Liriodendron muscari | Tatarian Honeysuckle |
| Lonicera japonica | Ice Plant |
| L. tartarica | Crabapple* |
| Malephora luteola | Heavenly Bamboo |
| Malus sp. | Olive* |
| Nandina domestica | Mondo Grass |
| Olea europaea | Trailing African Daisy |
| Ophiopogon japonicum | Sour-wood |
| Osteospermum fruticosum | Avocado* |
| Oryndanthum arboreum | Frasier's Photinia |
| Persea americana | Norway Spruce |
| Photinia Fraseri | Lily-of-the-Valley Shrub |
| Picea abies | Aleppo Pine, Var |
| Pieris japonica | Canary Island Pine |
| Pinus brutia | Aleppo Pine |
| P. canariensis | Australian Pine |
| P. halepensis | Monterey Pine |
| P. nigra | Japanese Black Pine |
| P. radiata | |
| P. thunbergiana | |



■ 4 After March 20

□ 5 Jan 1 to Mar 20

Foxtail (yellow green) tend to germinate before crabgrass, therefore, if targeting foxtails, apply 3 weeks before the corresponding crabgrass germination date.

Use Precautions

The following use precautions apply to the use of this product in turf grasses. Application of this product may thin emerged annual bluegrass and newly overseeded grasses. Do not apply to FALL SEEDED TURF until the following spring and only after the second mowing. Do not apply to SPRING SEEDED TURF or to newly set sod until the following year. Application to turf stressed by drought, low fertility, or pest damage may result in turf injury. Do not apply this product to tees or greens, or to areas where dichondra, colonial bentgrass, velvet bentgrass or annual bluegrass (*Poa annua*) are desirable species.

Maximum Annual Rates

This product should not be applied above a maximum annual rate of 395 lbs. per acre

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.).....
 ("Turf Species and Rates" continued in next column) [59144-RG.PM4 (08-01-92)]

GRO TEC, INC. P.O. Box 290 - Madison, GA 33650

P. koidzumii
Pyrus sp.
Quercus rubra
Raphiolepis indica
Rhododendron
 (including azaleas)

Rosa Banksiae
Rosmarinus officinalis
Santolina virans
Sedum album
Syzygium paniculatum
Taxus cuspidata
T. media
Thuja occidentalis
Trachelospermum asiaticum
Tsuga canadensis
Viburnum japonicum
V. odoratissimum
V. plicatum
V. rigidum
V. tinus
V. trilobum
V. Wrightii
Vincetoxicum
Vitis sp.
Weigela florida
Yucca aloifolia
Yucca filamentosa

Furcraea formosensis
 Bradford Pear sp.
 Red Oak
 Indian Hawthorn
 'Coral Bells'
 'Formosa'
 'Hino-crimson'
 'PJM'
 'Roseum Elegans'
 Lady Bank's Rose
 Rosemary
 Santolina
 Stonecrop
 Japanese Bougainvillea
 Japanese Yew
 Yew, Var.
 Common Arborvitae
 Star Jasmine
 Common Hemlock
 Japanese Viburnum
 Sweet Viburnum
 Japanese Snowball
 Canary Island Viburnum
 Laurustinus
 Cranberry Bush
 Wright Viburnum
 Common Periwinkle
 Grape*
 Old Fashioned Weigela
 Spanish Bayonet
 Yucca, Adam's Needle

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

