US ENVIRONMENTAL PROTECTION AGENCY	i i	DATE OF ISSUANCE	
OFFICE OF PESTICIDES PROGRAMS	2491-545	DEC 5 993	
REGISTRATION DIVISION (75-767) WASHINGTON, DC 20460	TERM OF ISSUANCE		
_	CONCICIONAL, EXPIRED GARAGEY 1,		
NOTICE OF PESTICIDE: REGISTRATION REREGISTRATION	THE OF PESTICIDE PRODU		
(Under the Federal Insecticide, Fungicide,	2008 Crabgrass Preventer with		
and Rodenticide Act, as amended)	Barricage		
ME AND ADDRESS OF REGISTRANT (Include ZIP code)			
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KOOS, Inc.		1	
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OTE: Changes in labeling formula differing in substance ubmitted to and accepted by the Registration Division priceduct always refer to the above U.S. EPA registration numbers.	or to use of the label in commer	on with this registration must be rce. In any correspondence on this	
n the basis of information furnished by the registrant, the ne Federal Insecticide, Fungicide, and Rodenticide Act.	above named posticide is here	by Registered/Reregistered under	
copy of the labeling accepted in connection with this Re	egistration/Reregistration is re	turned herewith.	
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For Selective Preemergence Control of Grass and Broadleaf Weeds in Established For Selective Preemergence Control of Grass and Diodeted Vision And Scape Ornamentals Turf Grasses (excluding golf course putting greens), Lawns and Landscape Ornamentals Overseeding/Reseeding (Cont.) 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 of conditions are cool and dry. Use the following applications must be made prior to germination of the target of conditions are cool and dry. Use the following training to the policy are for used.

ACTIVE INGREDIENT:

Prodiamine [N', N'-Di-n-propyl-2,4-dinitro-6-(trifluoromethyl)-n-phenylenediamine] - 0 INERT INGREDIENTS: - 99 - 99.777% -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). Harm-ful 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 altergic reactions in some individuals.

Statements of Practical Treatment

If in Eyes: Flush thoroughly with water for several minutes

Gef dical attention if irritation persists.

If in: Wash with soap and water. Rinse thoroughly.

Ge dical attention if irritation persists.

| In: Wash with soap and water. Rir
| 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 o. 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

On not contaminate water, food or feed by storage or disposal. STORAGE: Store inoriginal 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 if allowed by State or local authorities, by burning. If burned stay out of smoke stay out of smoke DIRECTIONS FOR USE

lation of Federal law to use this product in a manner tent 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 dale of application. Do not apply this product through any type of krigations, stem. Do not apply serially. Do not apply to golf course putting greens.

IMPORTANT

Not for use on plants being grown (1) for sale or other commercial use, (2) for commercial seed production, or (3) for research purposes. For use on plants intended for sesthetic purposes or climatic modification and being grown in ornamental gardens or parks, or on golf courses or lawns.

APPLICATION DIRECTIONS

Apply uniformly through suitable, calibrated commercial application equipment

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

-	Maximum Rate/Calendar Yee Lbs./ Acre (tbs./1.000 sq.ft.
Bermudagrass*	<u>Lbs./ Acre (lbs./1.000 sq.R.</u> 673 lbs.(15.1 lbs.)
Centipedegrass	
Seashore Paspalum	•
Tall Fescue(incl. Turf type)	, "
Zovsia	'
Perennial Bluegrass	448 lbs.(10.1 lbs.)
Perenniai Ryegrass	• •
Creeping Red Fescue	332 lbs.(7.8 lbs.)
Si. Augustinegrass	
Creeping Bentgrass min 1/	72" 296 (bs.(6.7 lbs.)

May be used on newly sprigged or plugged Bermudagrass at rates not to exceed 233 lbs./acre or 5.0 lbs./ 1,000 sq.ft. On newly sprigged or plugged Bermudagrass temporary slowing of stolon rooting may occur. Suppression only of Foxtail, Goosegrass and Rescuegrass due to reduced product rates used in sprigging situations. Do not apply more than 336 lbs. of product per application. Do not apply more than 673 lbs. of product per calendar year. If making more than one application, do not apply more than 336 lbs. within any 60 day period. 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:

Crabgrass - (large, smooth) Annual Bluegrass(Poa Annua) Goosegrass (1) Annual Foxtails Barnyardgrass Broadleaf Signalgrass Johnsongrass (from seed)

Rescuegrass (3)

Carpetweed Common Chickweed Common Lambsquarter Henbit Knotweed Progweed
Prostrate Spurge
Shepardspurse (2)
Yellow Woodsorrel(from seed)

Do not exceed maximum annual application rates recommeded 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 296 to 332 lbs./acre will control goosegrass. However, under heavy goosegrass pressure and/or extended growing season, apply an initial treatment of 332 lbs./acre followed after 60 days with a second treatment of 108 to 332 lbs/acre for season long goosegrass control. (2) Winter weeds are best controlled by applications made prior to germination: late summer, fall or winter timings. (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)

GUARANTEED FERTILIZER ANALYSIS

Total Nitrogen (N) 32%
Available Phosphoric Acid (P,O,) 4%
Soluble Potash (K,O) 6%
Ingredients Urea formaldehyde, Urea, Sulfur Coated Urea,
Ammoniated Phosphate, Muriate of Potash
EMBERGE SETTINGS

SPREADER SETTINGS Approx. pounds of product to apply per 1,000 sq R Spreader [3 64/1,000 [5,6 4/1,000 [7.5 4/1,000] 6 4 4/1,000				
Spreader	13 60/1 000	5.8 #/1.000	7.5 7 (300	E 4 # 600
Cyclone B-1	25	30	50	6 50
Ortho Drop	45	50	60	10 00
Scotts Drop	60	6 25	85	6 75

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

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



Net Weight 25 Pounds

Approximate Date

□ 1 After May 30 HMI 2 After May 10

► After April 20 nm 1 After March 20

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

Product	Broadcas	t Seeding	Drill Seeding	
lbs./Acre	wet &	cool &	wet &	cool &
of product	warm	dry	warm	dry
233	4 mos.		3 mos.	
448	8 mos.		6 mos.	
673	12 mos.	18 mos.	9 mos.	12 mos.

FOR LANDSCAPE ORNAMENTALS

Do not exceed 7 8 lbs /1 000 t > ft in any 60 day interval. Do not exceed maximum rate per calendar year of 15 1 lbs /1 000 ag ft. This product will not hairn most established ornamental trees, shrubs and flowers. The following species have shown tolerance to this product.

Acer Palmatum Acer Platanoides Actinidia chinensis Agapanthus allicanus Arctostaphylos densiffora Arctotheca calendula Aucuba japonica Berberis gladwynensis Bijukanae mentorensis thunbergii verruculosa Buxus microphylla Calkstemon viminalis Calluna vulgaris Carpobrotus eduks Lassia artemisoides Ceanothus rigidus Chamaecyparis pisifera Cleyera japonica Cornus florida stolonilera odađeria sellozoa otoneaster apiculatus buxifokus Dammen microphyllus opressus sempervirens Delasperma alba Elaeagnus pungens Euonymus lortunei

Fatsia japonica Forsythia intermedia F. viridissima Gardenia Jasminoides Hedera helix Hibiscus Rosa-sinensis llex cornuta crenala l opaca l Pernyi Jasminium nudiflorum Jasminium nudilloru Juglans sp Juniperus chinensis conferta J. horizontalis Justicia brandegeana Lagerstromia indica

japonica kiautschowca

igustrum amurense japonicum lucidum Litiope muscari Lonicera japonica L. tatarica Maleonhora rurenia Malus sp Nandi a domes' ca Olea europa Ophio, cauri jepunicus Osteospei num iruticosuri. Oxydendrum arboreum Persea amelicana. Photinia Fraseri

Picea abies Pieris japonica Pinus 'vi it a Picanariensis halepensis nigra

radiata Thunbergiana strobus

P sylvestris Pistachio Mosporum rhombifolium P tobica runus laurocerasus

Pyracantha coccinea P fortuneana P kordzumi

Prunus sp

Japanese Maple Norway Maple Kiwi* Lily Of the Nile Vine Hill Manzanita Cape Weed Japanese Aucuba

Wintergreen Barberry Wintergreen Barberry
Mentor Barberry
Japanese Barberry
Varty Barberry
Japanese Boxwood
Weeping Bottlebrush
Scotch Heather
Hottentot Fig(Ice Plant)
Feathery Cassia
Wild Lifac False Cypress Cleyera Flowering Dogwood American Dogwood Pampas-Grass Cranberry Cotoneaster

Bearberry Cotoneaster Rockspray Cotoneaster Italian Cypress White Trailing Ice Plant White Training Ice Plan Hop Bush Silverberry Wintercreeper Evergreen Euonymus Spreading Euonymus Japanese Aralia Border Forsythia Greenstern Forsythia Greenstern Forsythia Greenstem Forsythia
Gardenia, Cape Jasmine
English My
Chinese Hibiscus
Chinese Holly
Japanese Holly
Japanese Holly American Holly Perny Holly Winter Jasmine Walnut Walnut*
Chinese Juniper
Shore Juniper
Creeping Juniper
Shrimp Plant
Crepe Myrtte
Amug Privet
Japancise Privet
Glossy Privet
Big Blue Lify Turf
Japanese Honeysuckle
Tatanah Honeysuckle
See Plant

ice Plant Crabapple^e leavenly Bamboo Kondo Grass Trailing African Darsy Avncado* France Avecago Frasser's Photinia Norway Spruce Lift of the Valley Shrub Aleppo Pine, Var Ca. a y Island Pine Calabrian Pine Auttian Black Pine Monterey Pine
Monterey Pine
Jaganese Black Pine
«Easters White Pine
Scotch Pine
Pistachio"

Queensland Pittosporum Citieenstand Pritosporum
Japanese Pittosporum
Podocarpus sp
English Laurel
Almond, Apricot, Nectarine,
Peach, Pturn and Prune*

Firethorn Firethorn sp. Firethorn, formosana sp. If In Eyes: Flush thoroughly with water for several minutes

Ge dical attention if irritation persists.

In: Wash with soap and water, Rinse thoroughly. Get medical attention if tritation persists.

if Inhaled: Remove : Iclim 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 inoriginal container away from other fertilizer, feed, and foodstuffs, and separated from other posticides. 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 tandfill or at an incineration facility, or allowed by State or local authorities, by burning. If burned allowed by State or local authorities, by burning. If burned stay out of smoke DIRECTIONS FOR USE

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IMPORTANT

Not for use on plants being grown (1) for sale or other commercial use, (2) for commercial seed production, or (3) for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in ornamental gardens or parks, or on golf courses or lawns.

APPLICATION DIRECTIONS

Apply uniformly through suitable, calibrated commercial application equipment

stolon rooting may occur. Suppression only of Foxtail, Goosegrass and Rescuegrass due to reduced product rates used in sprigging situations. Do not apply more than 336 lbs. of product per application. Do not apply more than 673 lbs, of product per calendar year, if making more than one application, do not apply more than 336 lbs. within any 60 day period, 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:

Crabgrass - (large, smooth) Annual Bluegrass(Poa Annua) Goosegrass (1) Annual Foxtails Barnyardgrass Broadleaf Signalgrass Johnsongrass (from seed) Rescuegrass (3)

Common Chickweed Common Lambsquarter Henbit Knoweed Prostrate Spurge Shepardspurse (2) Yellow Woodsorrel/from seed)

Do not exceed maximum annual application rates recommeded 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 296 to 332 lbs./acra will control goosegrass, However, under heavy goosegrass pressure and/or extended growing season, apply an initial treatment of 332 lbs./acre followed after 60 days with a second treatment of 108 to 332 lbs/acre for season long goosegrass control. (2) Winter weeds are best controlled by applications made prior to germination: late summer, fall or winter timings. (3) Suppression Only,

OVERSEEDING/RESEEDING

This product will inhibit germination of turf species if overseeded I 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)___

GUARANTEED FERTILIZER A	NALYSIS
Total Nitrogen (N)	32%
Available Phosphoric Acid (P,O _a)	4%
Soluble Potash (K,O)	3%
Ingredients: Urea formaldehyde, Urea, Sulfo	ir Coaled Urea,
Ammoniated Phosphate, Muriate of	Potash
Ammoniated Phosphate Muriate of SPREADER SETTINGS	

Approx pounds of product to apply per 1,000 sq ft Spreader 1,000 5 6 #/1,000 7 5 #/1,000 8 4 #/1,000				
Cyclone 8-1	25	3 0	50	6 50
Ortho Drop	45	5 0	60	10 00
Scotts Drop	60	6 25	65	6 75

MOTICE. 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

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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

Net Weight 25 Pounds streets and streets are streets and streets are streets and streets and streets are streets and streets a 🎞 1 After May 30 JIMI 2 After May 10 ► 3 After April 20 HMI 4 After March 20

1 5 Jan 1 to Mar 20 Foxtail (vellow green) tend to germinate before crabgrass, therefore, if targeting foxtails, apply 3 weeks before the corre-

sponding crabgrass germination date. Use Precautions The following use precautions apply to the use of this product in turf grasses and lawns. Application of this product may thin emerged annual bluegrass and newly overseeded grasses. Do not apply to OVERSEEDED TURF for 60 days after seeding or until after the second mowing, which ever is longer. Injury to desirable seedlings is likely if this product is applied before seedling secondary roots are in the second inch of soil, not thatch plus soil. Do not pply to newly set sod until the following year. Application of this product to turf stressed by drought, low fertility, or pest damage may result in turf injury. Disturbing the herbicide barrier with cultural practices such as discing may result in reduced weed control. Do not apply this product

to putting greens, or areas where dictiondra, 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 673 lbs, per acre or 15.1 lbs. /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 crabginass germinates between January 1 and April 20. (See Germination, Map.). (Continued in next column). [24BAR223 PM4 (11-15-93)]

KOOS, INC. - 4500 13TH COURT- KENOSHA, WI 53140 Yucca atoitolia Spanish Bayonet Yucca, Adam's Heedle Commental Species Only. Do not use on food producing trees or when

Japanese Maple Norway Maple Actinidia chinensis Lily-Of the Nile Vine Hill Manzanita gapanthus alucanus Arctostaphylos densiflora Arctotheca calendula Cape Weed Aucuba iaponica Berberis gladwynensis B julianae mentorensis thunberail B ASTUNCTIONS Buxus microphylla Callistemon viminalis Calluna vulgaris Carpobrotus edulis Cassia artemisoides Ceanothus rigidus Chamaecyparis pisifera Cleyera japonica Cornus florida C stolonifera Cortaderia selloana Cotoneaster apiculatus C humfolus C. Dammeri microphytlus upressus sempervirens Delasperma alba Dodonea viscosa Elaeagnus pungens Euonymus fortunei

Acer Palmatum Acer Platanoides

japonica kiautschowca Fatsia japonica Forsythia intermedia vindessima Gardenia jasminoides ledera helix Hibiscus Rosa-sinensis Ilex cornuta 1 crenata 00302 I Pernyi Jasminium nudiflorum Juglans sp niperus chinensis conferta J. horizontalis Justicia brandegeana

agerstromia indica Liquistrum amurense japonicum lucidum Linope muscari Lonicera japonica tatarica Malecohora iuteola Malus sp Nandi a domes' ca Ofea europa Ophiopogur, jupunious
Osteospernum iruticosum

Oxydendrum articleum Persea americana Photinia Fraseri Picea abies Pieris japonica Pinus 'vi it s P canariensis P halepensis

radiata P Thunbergiana

Podocarpus macrophylla Prunus laurocerasus Prunus sp

Pyracantha coccinea fortuneana P koidzumi Pyrus sp Quercus rubra Raphiolepis indica Rhododendron (including azalea)

Rosa Banksiae Rusmarinus officinalis Santolina virens Sedum album Syzygium paniculatum Taxus cuspidata Thuja occidentalis Trachelospermum asiatum l'suga canadensis Viburnum japonicum odoratissimum V rigidum V tinus V tillobium

V. Wrightii Vinca minni Weigela florida Japanese Aucuba Wintergreen Barberry Mentor Barberry Japanese Barberry War'y Barberry Japanese Bor vapariese sorwood Weeping Bottlebrush Scotch Heather Hottenfot Fig(Ice Plant) Feathery Cassia Wild I dec False Cypress Clayera Flowering Dogwood American Dogwood Pampas-Grass Cranberry Coloneas

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Bearberry Cotoneaster Rockspray Cotoneaster Rakan Cypress White Trailing Ice Plant Hop Bush
Silverberry
Wintercreeper
Evergreen Euonymus
Spreading Euonymus Japanesa Aralia Border Forsythia Greenstern Forsythia Gardenia, Cape Jasmine English by Chinese Hibiscus Chinese Holly Japanese Holly American Holli Perny Holly Winter Jasmine Walnut Chinese Juniper Shore Juniper Creeping Juniper Shrimp Plant Crepe Myrtle Amur Privet Car a rese Privet Glossy Privet Big Blue Lily Turf
Japanese Honeysuckle Tararian Honeysuckle ke F'ant Crabapple Heaveniy Bamboo I. ondo Grass Trailing African Daisy Sour wood Avncago of Frasier's Pholinia horway Spruce Lity of the Valley Shrub Aleppo Pine, Var. Ca. 4 y Island Pine Calabrium Pine Austrian Black Pine Monterny Pine Jaranese Black Pine Easterr White Pine cotch Pine Pistachin⁴ Queensland Pittosporum Japanese Pittosporum Podocarpus sp English Laurel Almond, Apricot, Nectarine, Peach, Plum and Prune* Exetborn Firethorn, formosana sp Bradford Pear sp Red Oak Indian Hawthorne

Formosa Hino crimson 'Roseum Elegans' Lady Bank's Rose Rosemany Santolina Stonecrop Japanese Borcherry Yew Vac American Arborvitae Star Jasmine Common Hemlock Japanese Viburnum Sweet Viburnum Japanese Snowball Canary Island Viburnum Laurustinus Cranberry Rush Wright Viburnum Common Perminkte Grape'

Coral Bells

ACCEPTED
with COMMENTS
In EPA Letter Dated

DEC | 5 1993

Under the Federal Insecticide, Fundieur and Redenticide Act at mended, for the posticide registered under EPA Reg. No. 2491-345

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