



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

MAR 30 1998

Mr. Craig Martens  
PBI/Gordon Corporation  
P.O. Box 014090  
Kansas City, Missouri 64101

Dear Mr. Martens:

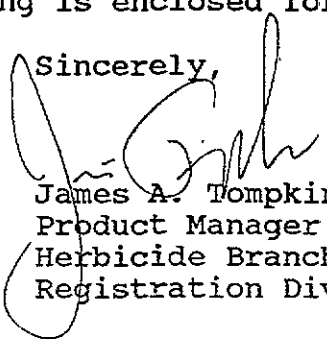
Subject: Label Amendments  
Acme Agricultural Products  
Norosac 4G Dichlobenil Herbicide  
EPA Reg. No. 2217-675  
Your submission dated February 17, 1998

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended is acceptable provided that you make the labeling changes listed below.

1. Under the heading, Directions for Use, following the fourth paragraph, amend your non-agricultural use requirements to agree with one of the following suggested statements from the Label Review Manual: "Keep children and pets out of the treated area until sprays have dried." or "Keep unprotected persons out of treated areas until sprays have dried."
2. Submit (1) copy of your final printed labeling before you release the product for shipment.

A stamped copy of the labeling is enclosed for your records.

Sincerely,



James A. Tompkins  
Product Manager (25)  
Herbicide Branch  
Registration Division (7505C)

Enclosures

GORDON'S  
TURF & LANDSCAPE PRODUCTS

# BARRIER

ORNAMENTAL  
LANDSCAPING  
HERBICIDE



VAPOR  
**BARRIER**<sup>™</sup>  
HERBICIDE

*selective herbicide for control of annual and perennial grasses and weeds in noncrop areas: landscape ornamentals not grown for commercial sale, parks, along roads & highways, around buildings, hedges, trees, sports grounds, along fences. See back panel for Directions For Use.*

ACTIVE INGREDIENT:  
Dichlobenil 1.0%  
2,6-dichlorobenzonitrile 95.0%  
INERT INGREDIENTS: 5.0%  
TOTAL 100.0%

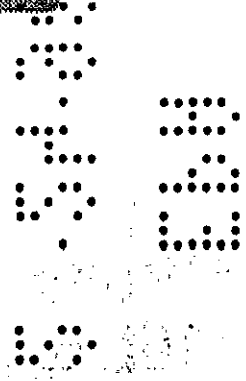
KEEP OUT OF REACH OF CHILDREN  
**CAUTION**  
See back panel for Statement of Practical Treatment.

NET WEIGHT 50 POUNDS

BARRIER  
CODE 5123046



BARRIER CODE 5123046





READ THE ENTIRE LABEL FIRST.  
OBSERVE ALL PRECAUTIONS AND  
FOLLOW DIRECTIONS CAREFULLY.

### PRECAUTIONARY STATEMENTS

#### Hazards to Humans & Domestic Animals

**CAUTION:** Harmful if swallowed. Do not breathe dust. Do not allow contact with eyes or skin.

#### Personal Protective Equipment (PPE):

Applicators and other handlers must wear long-sleeved shirt and long pants, waterproof gloves, and shoes plus socks. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### User Safety Recommendations:

##### Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

#### Statement of Practical Treatment

**IF SWALLOWED:** Induce vomiting by drinking water and touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

**IF INHALED:** Remove victim to fresh air.

**IF IN EYES:** Flush with plenty of water. Get medical attention if irritation persists.

**IF ON SKIN:** Wash with plenty of soap and water.

#### ENVIRONMENTAL HAZARDS:

Cover, collect, or incorporate granules applied on the soil surface. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or 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 and grounds.

**BARRIER® Ornamental Landscaping Herbicide** is recommended for use in all established landscape plantings in institutional, ornamental, and residential sites. **BARRIER® Ornamental Landscaping Herbicide** is intended to be applied by lawn care operators, service technicians, maintenance applicators, and other landscape personnel.

Institutional sites are defined as areas around properties or facilities providing a service to public or private organizations including, but not limited to, hospitals, nursing homes, schools, museums, libraries, sport facilities, golf courses, and office buildings. Ornamental sites include established plantings around residences, parks, streets, retail outlets, cemeteries, industrial and institutional buildings. Finally, residential sites are defined as areas associated with the household or home life including, but not limited to apartment complexes, condominiums, and patient care areas of nursing homes, mental institutions, hospitals, or convalescent homes.

**BARRIER® Ornamental Landscaping Herbicide** can be used for residual weed control in these noncropland areas:

- Around trees, shrubs, hedges, woody ornamentals, nonbearing fruit trees (ornamental), and certain groundcovers established in shelter-belts, windbreaks, and landscape plantings.
- Under fence-lines, along fences, driveways, parking areas, parking lots, and borders of flower beds.
- Along roads and highways and under guard rails.
- Along golf cart pathways, sidewalks, and cemetery memorials.
- Around residences, buildings, and other outbuildings.

#### LANDSCAPE PLANTINGS:

**BARRIER® Ornamental Landscaping Herbicide** is recommended for use around the established landscape ornamentals listed below:

**BARRIER® Ornamental Landscaping Herbicide** is not recommended for flower gardens, wildflowers, foliage plants, or flowering bulbs.

Amur corktree	English walnut	Mountain ash
Arborvitae	(Ornamental)	Nandina
Ash	Euonymus	Oak
Azalea <sup>1</sup>	Filbert (Ornamental)	Osmanthus
Barberry	Flowering almond	(Holly-olive)
Beauty bush	Flowering quince	Paxistima
Birch	Forsythia	Pecan (Ornamental)
Buckeye	Gardenia	Philadelphus
Boxwood	Ginkgo	Prunella
Camellia	Hackberry	Pittosporum
Caragana	Heather	Podocarpus
Cleyera	Holly ( <i>Ilex</i> spp.) <sup>2</sup>	Poplar
( <i>Cleyera japonica</i> )	Honeylocust	Privet
Cottonaster	Hornysuckle	Pyracantha
Cottonwood	Juniper	Rhododendron
Crabapple	Kinnikinnick	Rockrose
(Ornamental)	Laurel	Rose
Deutzia	Leucothoe	Russian olive
Dogwood	Lilac	Spiraea
Eastern red cedar	Linden	Squawcarpet
Elm	Locust	Willow <sup>3</sup>
Elwood false cypress <sup>4</sup>	Magnolia	Weigela
English ivy	Maple <sup>5</sup>	Yew ( <i>Taxus</i> )
( <i>Hedera helix</i> )	Mock orange	

<sup>1</sup>Kurume, Mollis, Hardy hybrid types and hardy native species only.

<sup>2</sup>Except *I. orientalis*, *I. rotunda*, *I. vomitoria*.

<sup>3</sup>Not for use on these species within the State of California. Pine species are sensitive to injury from **BARRIER® Ornamental Landscaping Herbicide** if applied within two years after transplanting.

#### SOIL SURFACE TREATMENT:

Spring and fall applications are effective. Apply as soil surface treatment from late fall through early spring. For best results, applications in the states of Maine, Vermont, New Hampshire, Massachusetts, Rhode Island, Connecticut, New York, Michigan, Wisconsin, Minnesota, North Dakota, South Dakota and Montana should be made in early spring after soil has thawed. Do not apply to frozen soil or over the top of the snow. Old weed growth should not be removed before application. Do not make surface applications to areas which have been cultivated during the fall or summer prior to application.

#### SOIL TREATMENT WITH INCORPORATION:

If practical, shallow incorporation may increase the effectiveness of weed control. Apply and incorporate immediately after application in late fall or very early spring.

#### ANNUAL AND BIENNIAL WEED CONTROL:

This product is recommended for control of annual grass and broadleaf weeds such as: Annual Bluegrass (*Poa annua*), Bull Thistle, Camphorweed, Carpetweed, Chickweed, Citronmelon, Coffee-weed, Crabgrass, Cudweed, Evening Primrose, Fieldneck, Florida Purslane (Pusley), Foxtail, Groundsel, Henbit, Jerusalem Oak Goosefoot, Knotweed, Lambsquarters, Maypops, Climbing Milkweed, Miner's Lettuce, Old Witchgrass, Pepperweed, Pineappleweed, Purslane, Ragweed, Deadnettle, Redroot Pigweed, Rosarypea, Russian Thistle, Shepherdspurse, Smartweed, Spanishneedles, Scurge, Teaweed, Texas Panicum, Wild Barley, Wild Carrot, Wild Mustard, and Wild Radish.

#### PERENNIAL WEED CONTROL:

This product is recommended for control of certain perennial weeds such as Artemisia, Bluegrass, Canada Thistle, Curly Dock, Dandelion, Dogfennel, False Dandelion (Catsear), Fescue, Horsetail, Leafy Spurge, Nutsedge, Orchardgrass, Plantain, Quackgrass, Russian Knotweed, Timothy, Wild Artichoke, Wild Aster, Yellow Rocket, and Yellow Woodsorrel.

Apply in early spring before seeds of annual weeds germinate or after cultivation has removed the growing weeds. Distribute granules uniformly over the soil surface. If treatment is followed by application of 1/2 to 1 inch of water by overhead irrigation, the lower rates are recommended. Shallow incorporation immediately after application is recommended in southern states. In other areas, shallow incorporation or sprinkler irrigation is suggested when applications are made during periods of high temperatures.

#### APPLICATION RATES:

For annual and biennial weeds apply 100 to 150 pounds of product per acre. For perennial weeds listed, apply 150 to 200 pounds of product per acre. Do not apply more than 150 pounds of product per acre on Azalea, Boxwood, Euonymus, Forsythia, Heather, Holly, Ivy, Lilac, Leucothoe. Do not apply until 4 weeks after transplanting. Do not apply more than 150 pounds of product per acre on plantings less than one year old.

Weeds	Amount of Product		Approximate Treated Area for this Bag Size	
	Pounds/Acre	Pounds/1,000 Sq. Ft.	Bag Size	Sq. Ft.
Annual, Biennial Weeds	100 - 150	3.8 - 5.4	50# bag size	89,000 - 14,000
Perennial Weeds	150 - 200	5.4 - 7.0	50# bag size	14,000 - 11,000

#### EQUIPMENT CALIBRATION:

Determine the size of the treatment area, select the appropriate application rate, and calibrate the granular spreader. These three diagrams show the distribution pattern of the granules and will help with your equipment calibration.



#### USE PRECAUTIONS:

- Do not use in seedbeds, transplant or cutting beds, commercial nurseries or greenhouses. Do not apply until 6 months after planting rooted cuttings.
- Do not apply to areas on slopes above lawns or susceptible crops as runoff from treated area could cause injury.
- Do not exceed the maximum recommended amount per growing season. Do not use on "St. Lucia fine sand", "Arzell fine sand" or other light sandy soil.
- Do not graze livestock in treated areas.
- Avoid applications which allow **BARRIER® Ornamental Landscaping Herbicide** to lodge in the foliage, particularly in conifer species, such as pines, yews, etc.
- Do not allow **BARRIER® Ornamental Landscaping Herbicide** to accumulate and be in contact with trunk at or below soil line.

#### UNDER ASPHALT:

For general weed control under asphalt (in areas such as roadways, parking lots, recreational areas), after final grade is achieved, apply 250 to 300 pounds of product per acre (5% to 7 pounds of product per 1,000 square feet). Treated area should be covered with asphalt as soon as possible. For resurfacing work, existing weeds should be sprayed with a contact herbicide prior to application.

### STORAGE & DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

**STORAGE:** Store in original bag in a locked storage area inaccessible to children or pets. Storage area should be cool and dry. Keep bag tightly closed. Repeat bag by rolling down top to product level and taping or clipping. Do not store near seeds, bulbs, or in greenhouses.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of at an approved waste 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.

#### LIMITED WARRANTY AND DISCLAIMER

The manufacturer warrants only that the chemical composition of this product conforms to the ingredient statement given on the label, and that the product is reasonably suited for the labeled use when applied according to the Directions for Use.

THE MANUFACTURER NEITHER MAKES NOR INTENDS ANY OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE EXPRESSLY DISCLAIMED. This limited warranty does not extend to the use of the product under abnormal conditions such as drought, excessive rainfall, tornadoes, hurricanes, etc. These damages are beyond the control of the manufacturer or the seller. Any damages arising from a breach of the manufacturer's warranty shall be limited to direct damages, and shall not include indirect or consequential damages such as loss of profits or values, except as otherwise provided by law.

The terms of this Limited Warranty and Disclaimer cannot be varied by any written or verbal statements or agreements. No employee or agent of the seller is authorized to vary or exceed the terms of this Limited Warranty and Disclaimer in any manner.

**BARRIER®** is a registered trademark of PBI/Gordon Corporation.

512/1297 AP120997  
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EPA EST. NO. 2217-KS-2

MANUFACTURED BY  
**PBI/Gordon Corporation**  
KANSAS CITY, MISSOURI 64101

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4. **NON-AGRICULTURAL USE REQUIREMENTS:** If the label you are reviewing contains only uses within the scope of the WPS, you may skip this section. If the label contains entry restrictions, notification requirements, or other instructions similar to WPS requirements that apply to uses NOT within the scope of the WPS (non-agricultural uses), there should be a second box on the label called: "Non-Agricultural Use Requirements." This box may be placed anywhere in the Directions for Use section of the label after the Agricultural Use Requirements box. The following statements must be contained in the non-agricultural use requirements box:

**"Non-Agricultural Use Requirements"**

"The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses."

In addition, place into the Non-Agricultural Use Requirements box all the entry restrictions, notification requirements, or other statements and instructions (except personal protective equipment requirements) that apply to the non-WPS uses on the label. Examples: "Keep children and pets out of the treated area until sprays have dried." or "Keep unprotected persons out of treated areas until sprays have dried."