

400-168

10/24/1984

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CASORON®

4G

DICHLOBENIL WEED AND GRASS KILLER

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS

CAUTION

Harmful if swallowed. Avoid breathing of dust. Avoid contact with eyes or skin.

ENVIRONMENTAL HAZARDS

Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes.

DIRECTIONS FOR USE

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

STORAGE AND DISPOSAL

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

STORAGE — Store in a dry location. Do not store with propagative structures such as seed, bulbs, tubers, nursery stock, etc., or with food or feed products.

PESTICIDE DISPOSAL — Wastes resulting from the use of this product may be disposed of on site or at an approved wastes 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.



COMPOSITION

Active Ingredient: (% by weight)	
Dichlobenil*	4.0%
Inert Ingredients:	96.0%
TOTAL:	100.0%

*2,6-dichlorobenzonitrile, U.S. Patent 3,027,248

ACCEPTED

OCT 24 1984

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 400-168

KEEP OUT OF REACH OF CHILDREN CAUTION

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician or poison control center immediately.
IF INHALED: Remove to fresh air; if abnormal symptoms develop, contact a physician.
IF ON SKIN: Wash affected area with plenty of soap and water.
IF IN EYES: Flush eyes with plenty of water for at least 15 minutes. Contact a physician.
See left side panel for additional precautionary statement.

Chemical Group
UNIROYAL Inc.
Middlebury, CT 05749

EPA REG. NO. 400-168
EPA EST. NO.

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10-1-84

Lot. No.

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GENERAL DIRECTIONS

PERENNIAL WEED CONTROL

CASORON 4G is recommended for control of certain perennial weeds such as *Artemisia*, *Canada Thistle*, *Curly Dock*, *Falsedandelion (Catsear)*, *Fescue*, *Leafy Spurge*, *Orchardgrass*, *Quackgrass*, *Russian Knap weed*, *Smooth Brome*, *Timothy*, *Wild Artichoke*, *Wild Aster*, *Wild Carrot*, and *Yellow Rocket* in established woody ornamentals, nuts and fruit and for control in non-crop areas such as roadways, around buildings and fences, railroad and utility rights-of-way and installations.

SOIL SURFACE TREATMENT: Apply CASORON 4G as a soil surface treatment in late fall from November 15 to February 15. Old weed growth should not be removed before application. Do not make surface application to areas which have been cultivated during the fall or summer prior to application.

INCORPORATED TREATMENT: Apply CASORON 4G and incorporate immediately after application in late fall or very early spring before May 1.

ANNUAL WEED CONTROL

CASORON 4G is recommended for control of annual grassy and broadleaved weeds and certain perennial weeds such as *Annual Bluegrass (Poa annua)*, *Bluegrass*, *Bull Thistle*, *Camphorweed*, *Carpetweed*, *Chickweed*, *Citron Melon*, *Coffeeweed*, *Crabgrass*, *Cudweed*, *Dandelion*, *Dogfennel*, *Evening Primrose*, *Fiddleneck*, *Florida Purslane (Pusley)*, *Foxtail*, *Gisekia*, *Groundsel*, *Henbit*, *Horsetail*, *Jerusalem oak*, *Goosefoot*, *Knotweed*, *Lambsquarter*, *Maypops*, *Milkweed Vine (Morrenia odorata)*, *Miners Lettuce*, *Natalgrass*, *Old Witchgrass*, *Peppergrass*, *Pineapple Weed*, *Plantain*, *Purslane*, *Ragweed*, *Red Deadnettle*, *Redroot Pigweed*, *Rosarypea*, *Russian Thistle*, *Shepherdspurse*, *Smartweed*, *Spanishneedles*, *Spurge*, *Teaweed*, *Texas Panicum (Hurrah grass)*, *Wild Barley*, *Wild Mustard*, *Wild Radish*, and *Yellow Woodsorrel*.

Apply CASORON 4G either 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 $\frac{1}{2}$ to 1 inch of water by overhead irrigation, the lower rates are recommended. Shallow incorporation immediately after application is recommended in southern areas. In other areas, shallow incorporation or sprinkler irrigation is suggested when applications are made during periods of high temperature.

NOTE: Use of CASORON 4G on plants not listed on the label may result in damage.

FRUIT AND NUT ORCHARDS AND NURSERIES

CASORON 4G may be used on the following crops.

- A. **Almond, Apple, Blueberry, Cherry, Grape, Mango, Nectarine, Peach, Pear, Prune, Plum, Filbert, Pecan** (do not use on pecan seedlings within 6 months of planting), **English Walnut**: May be used on bearing, non-bearing and nursery stock. Do not apply until 4 weeks after transplanting. Do not make application within one month of harvest of nuts or stone fruits. Apply 100 to 150 pounds per acre for annual weed control based on area actually treated. For control of perennial weeds apply 150 pounds per acre. Follow general directions above.
 - B. **Blackberry and Raspberry**: For control of annual weeds follow general directions above except use only on established plantings and do not apply more than 100 pounds per acre. Do not apply during new shoot emergence.
 - C. **Citrus** (bearing and non-bearing oranges, grapefruit, tangerines, lemons and limes) in groves: Apply 75 to 150 pounds per acre and incorporate immediately to a depth of 1 to 2 inches by use of power driven rotary hoe. Do not apply less than one year after transplanting; do not apply before water ring is removed.
 - D. **Citrus Nurseries**. CASORON 4G may be used for control of annual weeds in the following citrus root stocks: *Cleopatra* mandarin, rough lemon, sour orange, and sweet orange. Apply CASORON 4G to weed-free soil at 100 to 150 pounds per acre. Make first application in early spring after removal of banks, and second in early summer, not less than 90 days after the first. Apply broadcast, and unless soil is wet irrigate lightly with overhead system ($\frac{1}{4}$ to $\frac{1}{2}$ inch).
- Do not apply CASORON 4G during 6 months following possible freeze damage on any citrus. Do not allow livestock to graze treated orchards.

WOODY ORNAMENTALS, SHELTERBELTS AND FOREST PLANTINGS (ESTABLISHED AND IN NURSERIES)

For control of annual weeds CASORON 4G may be used on the following plants. Apply 100 to 150 pounds of CASORON 4G per acre, based on area actually treated. Do not apply until 4 weeks after transplanting. Follow general directions above.

For control of perennial weeds listed, apply 150 to 200 pounds per acre. Do not apply more than 150 pounds per acre on Azalea, Boxwood, Euonymus, Forsythia, Heather, Holly, Ivy, Lilac, Leucothoe. Do not apply more than 150 pounds per acre on plantings less than 1 year old. Follow general directions listed above.

Amur Corktree	Dogwood	Ivy (Hedera helix)	Pachistima
Arbor Vitae	Eastern Red Cedar	Juniper	Pecan
Ash	Elm	Kinnikinnick	Photinia
Azalea ¹	Elwood Cypress	Laurel	Pittosporum
Barberry	English Walnut	Leucothoe	Poplar
Beauty Bush	Euonymus	Lilac	Privet
Birch	Filbert	Linden	Pyracantha
Boxelder	Flowering Almond	Locust	Rhododendron
Boxwood	Flowering Quince	Magnolia	Rockrose
Camellia	Forsythia	Maple	Rose
Caragana	Gardenia	Mock Orange	Russian Olive
Cleyera japonica	Goldenraintree	Mountain Ash	Spirea
Cotoneaster	Hackberry	Nandina	Squawcarpet
Cottonwood	Heather	Oak	Weigela
Crabapple	Holly (Ilex spp) ²	Osmanthus	Willow
Deutzia	Honeysuckle	(Holly-olive)	Yew (Taxus)

¹Kurume, Mollis, Hardy hybrid types and hardy native Azalea species only.

²Except *I. crenata*, *I. rotunda*, *I. vomitoria*.

USE PRECAUTIONS

Do not use in seed beds, transplant or cutting beds or greenhouses. Do not apply until 6 months after rooting of cuttings in the field, or after planting rooted cuttings. Do not apply CASORON 4G to fruit stock within 3 months prior to or following grafting or budding of root stocks or planting of new grafts. Do not apply more than the maximum recommended amount of CASORON 4G per growing season. Do not use on "St. Lucie fine sand," "Arzell fine sand" or other light sand soil. Do not graze livestock in treated areas.

WEED CONTROL IN ESTABLISHED ALFALFA SEED AND LADINO SEED PRODUCING FIELDS

(For Seed Alfalfa in Northwest Area, Seed Ladino Clover in Pacific Coast Area)

For control of all species of dodder and certain grassy broadleaved weeds such as *lambquarters*, *pigweed*, *green foxtail*, *buckhorn plantain*, *prickly ox-tongue thistle*, *annual ryegrass*, *chickweed*, *shepherdspurse*, *knotweed*, *prickly lettuce*, *sow thistle*, and germinating seeds of these weeds, apply CASORON 4G at 35 to 50 pounds per acre. Use the lower rate on light soils and the higher rate on heavier soils. Distribute uniformly by use of either ground or aerial granule distribution equipment. Do not skip or overlap.

ALFALFA: Apply CASORON 4G in spring as a surface application just prior to dodder and weed seed germination. To insure continued control of dodder, make a second application four to six weeks after the first, using 50 pounds per acre in the standing alfalfa without incorporation, just before irrigating. CASORON 4G can be used for dodder control under either sprinkler or furrow irrigation.

LADINO CLOVER: Make application after harvest when adequate rainfall or supplemental irrigation is assured, while crop is semidormant to dormant.

USE PRECAUTIONS

Use only in fields devoted exclusively to seed production. Do not apply CASORON 4G if any part of the crop or subsequent cuttings are used for food or feed purposes. Do not graze or use forage from treated areas. Do not use seed for food or feed purposes. Apply only to established stands. Do not apply more than 50 pounds of CASORON 4G at any one time or more than 100 pounds per season.

WEED CONTROL IN CRANBERRIES

Control of perennial and annual, broadleaved and grassy weeds (including rushes and sedges) in cranberries can be obtained by use of CASORON 4G. The following weeds are controlled: *Sensitive Fern*, *Bracken Fern*, *Royal Fern*, *Hair Cap Moss*, *Common Horsetail*, *Water Horsetail (pipes)*, *Rush (Juncus spp.)*, *Dodder*, *Bluejoint grass*, *Rattlesnake grass (Manna grass)*, *Summer grass*, *Velvetgrass*, *Bent Grasses*, *Little Hairgrass*, *Crabgrass*, *Rice Cutgrass*, *Bunch grass*, *Muskrat grass*, *Nutsedge (Nutgrass)*, *Stout Wiregrass*, *Wideleaf grass*, *Stargrass*, *Woolgrass*, *Cotton grass*, *Needle grass*, *Oniongrass*, *Arrowleaved Tear Thumb*, *Beggarticks*, *Knotweed*, *Loosestrife*, *Marsh St. Johnswort*, *Tideland clover*, *Ragweed*, *Sorrell*, *Wild Strawberry*, *Aster*, *Buckbean*, *Hawkweed*, *Western Lilaeopsis*, *Marsh Pea*, *Plantain*, *Smartweed (Marsh pepper Pennsylvania, Spotted, Swamp and Water)*.

Application should be made in early spring while perennial weeds are still dormant and annual weeds have not started to germinate or in late fall after crop has been harvested. Apply pre-bloom or post-harvest.

Spring Treatment

AREAS OTHER THAN PACIFIC NORTHWEST: Apply 100 pounds CASORON 4G per acre. Do not make spring application if treatment was made the previous fall. See specific directions for spring treatment in the Pacific Northwest.

PACIFIC NORTHWEST: Two equal applications may be made in early spring with an interval of 3 to 6 weeks between treatments. Total application should be 100 pounds per acre.

Fall Treatment

In all growing areas apply 100 to 150 pounds of CASORON 4G per acre in the fall after crop has been harvested. Do not make fall application if treatment was made the previous spring. Use high rate only on very weedy bogs, or on bogs abandoned because of weeds.

USE PRECAUTIONS

Distribute CASORON 4G uniformly. Avoid over-application which may result from over-lapping during treatment period. Temporary reddening of cranberry plants may occur especially with late spring application or when applied on sandy bogs. Do not apply after cranberry plants start to bloom as yields may be reduced. Do not use on young beds or newly sanded beds or on bogs prior to or immediately after mowing for vines.

OTHER USES

NUTSEDGE CONTROL: To control to nutsedge (nutgrass) on mineral soils in areas on which containers of nursery stock are to be grown or held - and also for control in non-crop areas - apply 250 to 500 pounds of CASORON 4G per acre and incorporate immediately to a depth of 4 to 6 inches. Seasonal control of annual weeds will also be obtained. Containers of plants listed above may be placed on treated soil immediately. Do not transplant into treated soil.

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 lbs. per acre, (5 $\frac{3}{4}$ to 7 lbs. per 1,000 sq. ft.). Treated area should be covered with asphalt as soon as possible. For re-surfacing work, existing weeds should be sprayed with a contact herbicide prior to CASORON 4G application.

IMPORTANT NOTICE — Seller warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with the directions and instructions specified on the label under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product, contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.