

400-168

08/16/1988

CASORON 4G 1/4

# CASORON®

## 4G

### DICHLORBENIL WEED AND GRASS KILLER

#### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### CAUTION

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

#### ENVIRONMENTAL HAZARDS

Do not contaminate water when disposing of equipment washwaters. Cover, collect, or incorporate granules spilled on the soil surface.

#### 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.

## UNIROYAL CHEMICAL

**ACCEPTED**  
AUG 16 1988  
Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 400-168

#### COMPOSITION

|  |               |
|--|---------------|
| Active Ingredient: (% by weight)             |               |
| Dichlobenil (2,6-dichlorobenzonitrile) . . . | 4.0%          |
| Inert Ingredients: . . . . .                 | 96.0%         |
| <b>TOTAL:</b> . . . . .                      | <b>100.0%</b> |

U.S. Patent 3,027,248

### KEEP OUT OF REACH OF CHILDREN

## CAUTION

#### STATEMENT OF PRACTICAL TREATMENT

**IF SWALLOWED:** Call a physician or poison control center immediately. Drink promptly a large quantity of water.

**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.

UNIROYAL CHEMICAL COMPANY, INC.

Middlebury, CT 06749

EPA REG. NO. 400-168

EPA EST. NO.

2-26-88

Lot. No.

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**WORKERS SAFETY RULES**

**IMPORTANT! Always wash hands, face, and arms with soap and water before smoking, eating, drinking, or toileting. Keep all unprotected persons, children, livestock, and pets away from treated area or where there is a danger of drift. Do not rub eyes or mouth with hands. If you feel sick in any way, STOP work and get help right away. See Statement of Practical Treatment.**

**PERENNIAL WEED CONTROL**

CASORON 4G is recommended for control of certain perennial weeds 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.

|                          |                                 |                   |                |
|--------------------------|---------------------------------|-------------------|----------------|
| <b>WEEDS CONTROLLED:</b> | <i>Falsedandelion (Catsear)</i> | Quackgrass        | Wild Artichoke |
| Artemisia                | Fescue                          | Russian Knap weed | Wild Aster     |
| Canada Thistle           | Leafy Spurge                    | Smooth Brome      | Wild Carrot    |
| Curly Dock               | Orchardgrass                    | Timothy           | Yellow Rocket  |

**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<br>( <i>Poa annua</i> ) | Crabgrass                    | Gisekia       | Milkweed Vine<br>( <i>Morrenia odorata</i> ) | Ragweed         | Teaweed                         |
| Bluegrass                                | Cudweed                      | Groundsel     | Miners Lettuce                               | Red Deadnettle  | Texas Panicum<br>(Hurrah grass) |
| Bull Thistle                             | Dandelion                    | Henbit        | Natalgrass                                   | Redroot Pigweed | Wild Barley                     |
| Camphorweed                              | Dogfennel                    | Horsetail     | Old Witchgrass                               | Rosarypea       | Wild Mustard                    |
| Carpetweed                               | Evening Primrose             | Jerusalem oak | Peppergrass                                  | Russian Thistle | Wild Radish                     |
| Chickweed                                | Fiddleneck                   | Goosefoot     | Pineapple Weed                               | Shepherdspurse  | Yellow Woodsorrel               |
| Citron Melon                             | Florida Purslane<br>(Pusley) | Knotweed      | Plantain                                     | Smartweed       |                                 |
| Coffeeweed                               | Foxtail                      | Lambsquarter  | Purslane                                     | Spanishneedles  |                                 |
|  |                              | Maypops       |  | Spurge          |                                 |

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 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. *Apple, Blueberry, Cherry, Grape, Nectarine, Peach, Pear, Prune, Plum, Filbert:* 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.

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 ( <i>Hedera helix</i> ) | Pachistima           |
| Arbor Vitae         | Eastern Red Cedar                       | Juniper                     | Pecan                |
| Ash                 | Elm                                     | Kinnikinnick                | Photinia             |
| Azalea <sup>1</sup> | Elwood Cypress                          | Laurel                      | Pines <sup>3</sup>   |
| Barberry            | English Walnut                          | Leucothoe                   | Pittosporum          |
| Beauty Bush         | Euonymus                                | Lilac                       | Poplar               |
| Birch               | Filbert                                 | Linden                      | Privet               |
| Boxelder            | Flowering Almond                        | Locust                      | Pyracantha           |
| Boxwood             | Flowering Quince                        | Magnolia                    | Rhododendron         |
| Camelina            | Forsythia                               | Maple                       | Rockrose             |
| Caragana            | Gardenia                                | Mock Orange                 | Rose                 |
| Cleyera japonica    | Goldenrain tree                         | Mountain Ash                | Russian Olive        |
| Coneaster           | Hackberry                               | Nandina                     | Spirea               |
| Cottonwood          | Heather                                 | Oak                         | Squawcarpet          |
| Crabapple           | Holly ( <i>Illex spp</i> ) <sup>2</sup> | Osmanthus                   | Weigela              |
| Deutzia             | Honeysuckle                             | (Holly-olive)               | Willow               |
|                     |   |                             | Yew ( <i>Taxus</i> ) |

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

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

<sup>3</sup>Pine species are sensitive to injury from CASORON 4G if applied within two years after transplanting. Do not use on pines in California.

**USE PRECAUTIONS**

**AVOID APPLICATIONS WHICH ALLOW CASORON 4G GRANULES TO LODGE IN THE FOLIAGE, PARTICULARLY IN CONIFER TYPE SPECIES, SUCH AS PINES, YEW'S, ETC.**

Do not allow CASORON 4G granules to accumulate and be in contact with trunk at or below soil line.

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 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     | Rattlesnake grass | Nutsedge (Nutgrass)    | Knotweed            | Western Lilaeopsis |
| Bracken Fern       | Manna grass)      | Short Wiregrass        | Loosestrife         | Marsh Pea          |
| Royal Fern         | Summer grass      | Wideleaf grass         | Marsh St. Johnswort | Plantain           |
| Hair Cap Moss      | Velvetgrass       | Stargrass              | Tideland clover     | Smartweed          |
| Common Horsetail   | Bent Grasses      | Wooigrass              | Ragweed             | (Marsh pepper      |
| Water Horsetail    | Little Hairgrass  | Cotton grass           | Sorrell             | Pennsylvania       |
| (pipes)            | Crabgrass         | Needle grass           | Wild Strawberry     | Spotted            |
| Rush (Juncus spp.) | Rice Cutgrass     | Oniongrass             | Aster               | Swamp              |
| Dodder             | Bunch grass       | Arrowleaved Tear Thumb | Buckbean            | Water)             |
| Bluejoint grass    | Muskrat grass     | Beggarsticks           | Hawkweed            |                    |

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 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 $\frac{1}{2}$  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.

**ENDANGERED SPECIES RESTRICTIONS**

Before using this product in forests in a county listed below, you must contact the Endangered Species Specialist in the Regional/Field Office of the U.S. Fish and Wildlife Service (FWS) indicated below. You must provide FWS with your name and phone number, the product you intend to use, and the specific location in which you intend to use it. The U.S. Fish and Wildlife Service will inform you whether your proposed use is in the range of endangered species. Use of this product in the range of **endangered species, as defined for you by FWS, is prohibited.**

Contact FWS Field Offices at the following numbers:

- ALABAMA** (Jackson, Mississippi, 601-965-4900)  
Cherokee, De Kalb, Etowah, Jackson, Marshall and St. Clair.
- ARKANSAS** (Jackson, Mississippi, 601-965-4900)  
Clay, Jackson, Lawrence and Woodruff
- CALIFORNIA** (Sacramento, California, 916-978-4613)  
Lake
- CONNECTICUT** (Concord, New Hampshire, 603-225-1411)  
Litchfield
- DELAWARE** (Annapolis, Maryland, 301-269-5448)  
New Castle
- FLORIDA** (Jacksonville, Florida, 904-791-2580)  
Clay, Gadsden, Gulf, Jackson, Liberty, Marion, Orange and Polk
- GEORGIA** (Jacksonville, Florida, 904-791-2580)  
Baker, Brantley, Burke, Decatur, Dooly, Floyd, Gordon, Habersham, Lee, Rabun, Stephens, Sumter, Towns, Walker, Wayne and Wheeler
- ILLINOIS** (Bloomington, Indiana, 309-793-5800)  
Randolph
- IOWA** (St. Paul, Minnesota, 612-725-7131)  
Allamakee, Clayton, Delaware, Dubuque, Fayette and Jackson
- MAINE** (Concord, New Hampshire, 603-225-1411)  
Aroostook, Cumberland, Kennebec and York
- MARYLAND** (Annapolis, Maryland, 301-269-5448)  
Queen Anns
- MASSACHUSETTES** (Concord, New Hampshire, 603-225-1411)  
Essex and Hampshire
- MICHIGAN** (E. Lansing, Michigan, 517-337-6650)  
Berrien
- MINNESOTA** (Twin Cities, Minnesota, 612-725-3276)  
Goodhue and Rice
- MISSISSIPPI** (Jackson, Mississippi, 601-965-4900)  
Sharkey and Sunflower
- MISSOURI** (Columbia, Missouri, 314-875-5374)  
Christian, Dade, Greene and Ripley
- NEW HAMPSHIRE** (Concord, New Hampshire, 603-225-1411)  
Belknap, Carroll, Merrimack, Rockingham and Strafford
- NEW JERSEY** (State College, Pennsylvania, 814-234-4090)  
Sussex
- NEW YORK** (Cortland, New York, 607-753-9334)  
Delaware, Sullivan and Ulster
- NORTH CAROLINA** (Asheville, North Carolina, 704-259-0321)  
Avery, Bladen, Burke, Haywood, Henderson, Macon, Mitchell and Scotland
- OHIO** (Columbus, Ohio, 614-231-3416)  
Portage and Summit
- PENNSYLVANIA** (State College, Pennsylvania, 814-234-4090)  
Centre and Venango
- RHODE ISLAND** (Concord, New Hampshire, 603-225-1411)  
Providence
- SOUTH CAROLINA** (Asheville, North Carolina, 704-259-0321)  
Bamberg, Barnwell, Berkeley, Clarendon, Colleton, Lee, Oconee, Orangeburg, Poinciana and Richland
- TENNESSEE** (Asheville, North Carolina, 704-259-0321)  
Carter, Hamilton and Walker
- UTAH** (Salt Lake City, Utah, 801-524-4430)  
Cache, Emery, Sevier and Wayne
- VIRGINIA** (Annapolis, Maryland, 301-269-5448)  
Caroline, James City, Prince William and Smyth
- WISCONSIN** (Green Bay, Wisconsin, 414-465-2682)  
Grant, Monroe, Richland, Sauk and Vernon