



U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (H7505C)  
401 "M" St., S.W.  
Washington, D.C. 20460

EPA Reg. Number:  
400-168

Date of Issuance:  
MAY 18 2005

NOTICE OF PESTICIDE:  
       Registration  
  X   Reregistration

Term of Issuance:  
UnConditional

Name of Pesticide Product:  
Casoron 4G

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Willard F. Cummings  
U.S. Registration Manager  
Crompton Manufacturing Co.  
74 Amity Road  
Bethany, Connecticut 06524-3402

**Note:** Changes in labeling 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 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.

Registration is in no way to be construed as an endorsement or recommendation of this product by the 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 reregistered in accordance with FIFRA sec. 4(g)(C) provided that you:

Submit/cite all data required for registration/reregistration of your product when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Date:

5-18-05

ACCEPTED

MAY 18 2005

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

2/6

# Casoron® 4G

## Dichlobenil Weed and Grass Killer

Net Contents:

|  |        |
|--|--------|
| Active Ingredient: (% by weight)             |        |
| Dichlobenil (2,6-dichlorobenzonitrile) ..... | 4.0%   |
| Inert Ingredients .....                      | 96.0%  |
| Total: .....                                 | 100.0% |

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

### FIRST AID

- IF SWALLOWED** • Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
  - Do not induce vomiting unless told to do so by the poison control center or doctor.
  - Do not give anything by mouth to an unconscious person.
- IF IN EYES** • Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
  - Call a poison control center or doctor for treatment advice.
- IF ON SKIN OR ON CLOTHING** • Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15 to 20 minutes.
  - Call a poison control center or doctor for treatment advice.
- IF INHALED** • Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
  - Call a poison control center for further treatment advice.

**EMERGENCY ASSISTANCE:** Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

|  |                     |
|--|---------------------|
| <b>CROMPTON EMERGENCY PHONE</b>            | <b>800-292-5898</b> |
| <b>SAFETY DATA AND INFORMATION</b>         | <b>203-573-3303</b> |
| <b>TRANSPORTATION EMERGENCY (CHEMTREC)</b> | <b>800-424-9300</b> |

EPA REG. NO. 400-168  
EPA EST. NO. 2217-KS-2  
010CM/072903

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Middlebury CT 06749

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**Crompton**  
Uniroyal Chemical

www.cromptoncorp.com

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
CAUTION**

Causes moderate eye irritation. Harmful if swallowed. Avoid contact with skin, eyes or clothing. Avoid breathing dust. 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 First Aid.

**PERSONAL PROTECTIVE EQUIPMENT**

**Applicators and Other Handlers Must Wear:** A long-sleeved shirt & long pants; chemical-resistant gloves made of any waterproof material, such as butyl rubber ≥ 14 mils, natural rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, or nitril rubber ≥ 14 mils; shoes plus socks. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**Engineering Control Statements:** When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) 4-6], the handler PPE requirements may be reduced or modified as specified in the WPS.

When handler use enclosed cabs or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4-6), the handler PPE requirements may be reduced or modified as specified in the WPS.

**USER SAFETY RECOMMENDATIONS**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS**

Do not contaminate water when disposing of equipment washwaters. Cover, collect, or incorporate granules spilled on the soil surface. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark.

**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 as a sewer treatment or by backpack application.

Do not enter or allow workers to enter the treated area until granules are thoroughly watered in and the soil has dried.

Do not enter or allow persons or pets to enter the treated area until granules are thoroughly watered in and treated soil has dried.

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

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

Exception: if the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- coveralls
- chemical-resistant gloves made of any waterproof material such as butyl rubber ≥ 14 mils, natural rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, or nitril rubber ≥ 14 mils
- shoes plus socks.

For use on ground (soil or gravel) in liners in which ornamental stock will be placed. Thoroughly incorporate the granules into the soil (or other target surface) through watering-in. Once the application has been correctly incorporated through watering-in and the treated surface is dry, the WPS permits workers to enter the treated area during the restricted-entry interval without personal protective equipment or any other restriction if they are performing tasks that do not involve contact with the soil subsurface.

**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.

### STORAGE AND CONTAINER DISPOSAL

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

### GENERAL PRECAUTIONS AND RESTRICTIONS

This chemical has properties and characteristics associated with chemicals detected in ground-water. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground-water contamination.  
 Do not use in enclosed structures.  
**NOTE: Use of CASORON 4G on plants not listed on the label may result in damage.**

### APPLICATION INSTRUCTIONS

#### PERENNIAL WEED CONTROL

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

#### WEEDS CONTROLLED:

|                          |                   |                |
|--------------------------|-------------------|----------------|
| Artemisia                | Leafy Spurge      | Timothy        |
| Canada Thistle           | Orchardgrass      | Wild Artichoke |
| Curly Dock               | Quackgrass        | Wild Aster     |
| Falsedandelion (Catsear) | Russian Knap weed | Wild Carrot    |
| Fescue                   | Smooth Brome      | 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 biennial weeds such as:

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

#### NUTSEDGE CONTROL

CASORON 4G can be used for control of nutsedge in non-crop areas only. Apply recommended rates and incorporate immediately to a depth of 4 to 6 inches. Seasonal control of annual weeds will also be obtained with this application.

#### FRUIT AND NUT ORCHARDS AND NURSERIES

CASORON 4G may be used on the following crops.

**A. Apple, Blueberry, Cherry, Grape, Pear, 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. 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.

Thoroughly incorporate granules into the surface through watering-in.

**Do not allow livestock to graze treated orchards. Do not plant rotational crops, on which dichlobenil is not registered, in treated soil within one year after application.**

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

Use Rate: 100 lbs. CASORON 4G per acre.

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-budbreak or post-harvest.

Thoroughly incorporate granules into the surface through watering-in.

Multiple applications may be made as needed. Allow an interval of 3 to 6 weeks between treatments. Do not exceed 100 lbs. per acre in any twelve month period.

#### 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. Use lower rates on bogs with sandy soil or weak vines.

**WOODY ORNAMENTALS AND SHELTERBELTS  
[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.

Thoroughly incorporate granules into the surface through watering-in.

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

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

<sup>2</sup>Except Ilex 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, yews, etc.**

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

**Thoroughly incorporate granules into the surface through watering-in.**

**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, sandy soil.

**Do not graze livestock in treated areas.**

**HYBRID COTTONWOOD AND POPLAR PLANTATIONS AND STOOLBEDS**

CASORON 4G can be used in hybrid cottonwood and poplar plantations and stoolbeds grown for wood and pulp production. For control of annual and perennial weeds, apply at a rate of 50 to 100 lbs. per acre using ground or aerial application equipment. For weeds controlled and

application timings, refer to the directions outlined under "Perennial Weed Control" and "Annual Weed Control".

**USE PRECAUTIONS AND RESTRICTIONS:**

Do not use on trees that have been established for less than 6 months.

Do not allow granules to stick to foliage or to accumulate at the soil line around the base of the tree.

Do not plant rotational crops, on which CASORON is not registered, in treated soil within one year after application.

The use of CASORON 4G on hybrid cottonwood and poplar plantations and stoolbeds is limited to the desert areas in Oregon and Washington defined as 15 miles from the Columbia river in the counties of Walla Walla, Franklin and Benton in Washington and Umatilla and Morrow counties in Oregon.

**NON-CROP AREAS**

CASORON 4G may be used to control annual and perennial weeds in outdoor non-crop areas such as but not limited to:

Around buildings & structures

Around fences

Industrial areas

Recreational areas

Under containerized nursery stock

For control of annual weeds, apply at a rate of 100 to 150 lbs. per acre.

For control of perennial weeds, apply at a rate of 150 to 200 lbs. For nutsedge control, apply 250 lbs. per acre. For specific weeds controlled and application timings, refer to the directions outlined under "Perennial Weed Control", "Annual Weed Control" and "Nutsedge Control".

Thoroughly incorporate granules into the surface through watering-in.

**USE PRECAUTION:** Do not plant or 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, (5¼ lbs. to 7 lbs. per 1,000 sq. ft.). 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 CASORON 4G application.

**UNDER VINYL POOL LINERS**

Nutsedge (Nutgrass) can penetrate vinyl pool liners used in above ground pools. For control, apply at rate of seven pounds (7 lbs) per 1000 square feet. Immediately after the final grading has been achieved, use a tiller or a rake to mix into the top two inches of soil, and water with a fine mist from a hose or lightly sprinkle with a watering can. After pool installation has been completed, twelve to eighteen inches of perimeter should be cleaned of grass and the soil treated at a rate of 5¼ lbs. per 1000 square feet. It is recommended that the perimeter be treated annually.

| POOL SIZE      | EXACT AMOUNT NEEDED |
|----------------|---------------------|
| 18' round      | 2.0 pounds          |
| 21' round      | 2.7 pounds          |
| 24' round      | 3.4 pounds          |
| 27' round      | 4.3 pounds          |
| 12' x 18' oval | 1.6 pounds          |
| 12' x 24' oval | 2.2 pounds          |
| 15' x 27' oval | 3.0 pounds          |
| 15' x 30' oval | 3.4 pounds          |
| 15' x 32' oval | 3.6 pounds          |
| 18' x 33' oval | 4.4 pounds          |

6/10

**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.

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