

# Casoron® 4G

*herbicide*

DICHLORBENIL WEED AND GRASS KILLER

EPA REG. NO. 400-168  
016/090811a  
**507730-B** (0817)

Manufactured for:  
MacDermid Agricultural Solutions, Inc.  
245 Freight Street  
Waterbury, CT 06702-1818



**COMPOSITION**

Active Ingredient: (% by weight)

Dichlobenil (2,6-dichlorobenzonitrile) .....4%

Other Ingredients: .....96%

Total:.....100%

**KEEP OUT OF REACH OF CHILDREN  
CAUTION****FIRST AID**

- |                               |  |
|-------------------------------|--|
| <b>IF SWALLOWED</b>           | <ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul> |
| <b>IF IN EYES</b>             | <ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>   |
| <b>IF ON SKIN OR CLOTHING</b> | <ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>   |
| <b>IF INHALED</b>             | <ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center for further treatment advice.</li> </ul>  |

**EMERGENCY ASSISTANCE:** Have the product container or label with you when calling a poison control center or doctor, or going for treatment:**FOR 24-HOUR MEDICAL EMERGENCY ASSISTANCE CALL****PROPHARMA:** 1-866-303-6952 or +1-651-603-3432.**FOR 24-HOUR CHEMICAL EMERGENCY (Spills, leaks, fire, exposure or accident) CALL****CHEMTREC:** 1-800-424-9300 or +1-703-527-3887.

Product Use Information Number 1-866-761-9397

**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.

**PERSONAL PROTECTIVE EQUIPMENT****Applicators and Other Handlers Must Wear:** A long-sleeved shirt & long pants; chemical-resistant gloves made of any waterproof materials; shoes plus socks.

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables exist, 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.

### **USER SAFETY RECOMMENDATIONS**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE 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 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 or rinsate.

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.

### **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  $\geq$  14 mils, natural rubber  $\geq$  14 mils, neoprene rubber  $\geq$  14 mils, or nitrile rubber  $\geq$  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. Do not enter or allow persons or pets to enter the treated area until the granules are thoroughly watered in and the treated soil has dried.

### PESTICIDE 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 HANDLING** - Nonrefillable flexible container. Do not reuse or refill this container. Offer for recycling, if available. Completely empty bag by shaking and tapping the sides and bottom to loosen clinging particles. Then dispose of empty bag in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning.

### USE PRECAUTIONS AND RESTRICTIONS FOR ALL USES

Do not apply when windy.

To prevent product run-off, do not over water the treated area(s) to the point of runoff.

Do not graze livestock in treated areas for 12 months, after treatment.

Do not use in enclosed structures.

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

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

### APPLICATION INSTRUCTIONS

#### PERENNIAL WEED CONTROL

**CASORON 4G** may be used 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** may be used for control of annual grassy and broadleaved weeds and certain biennial weeds such as:

Annual Bluegrass	Giselia	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	Natalgrass	(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  $\frac{1}{2}$  to 1 inch of water by overhead irrigation, use the lower specified rates. 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 specified 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

**A. Apple, Cherry, Grape, Pear, Filbert:** May be used on bearing, non-bearing and nursery stock. Do not apply until 4 weeks after transplanting. For filberts, do not make application within one month of harvest of nuts. Apply 100 to 150 pounds product per acre for annual weed control based on area actually treated. For control of perennial weeds apply 150 pounds per acre.

Do not allow livestock to graze treated orchards.

**B. Bushberries (Blueberry, Current, Elderberry, Gooseberry, Huckleberry, Aronia berry, Blueberry lowbush, Buffalo current, Chilean guava, European barberry, Highbush cranberry, Honeysuckle, Jostaberry, Juneberry, Lingonberry, Native current, Salal, Sea buckthorn):** May be used on bearing, non-bearing and nursery stock. Do not apply until 4 weeks after transplanting. Apply 100 to 150 pounds product per acre for annual weed control based on area actually treated. For control of perennial weeds apply 150 pounds per acre.

**C. Caneberries (Blackberry, Raspberry, Boysenberry, Dewberry, Loganberry, Wild Raspberry):** For control of annual weeds follow directions above except use only on established plantings and do not apply more than 100 pounds product per acre. Do not apply during new shoot emergence.

Thoroughly incorporate granules into the surface through watering-in.

## RHUBARB

For control of annual weeds, apply 50 pounds per acre broadcast to the soil surface. Apply only while rhubarb is dormant.

Thoroughly incorporate granules into the surface through watering-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	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 (pipes)	Wideleaf grass	Buckbean
Rush (Juncus spp.)	Stargrass	Hawkweed
Dodder	Woolgrass	Western Lilaeopsis
Bluejoint grass	Cotton grass	Marsh Pea
Rattlesnake grass	Needle grass	Plantain
(Manna grass)	Oniongrass	Smartweed
Summer grass	Arrowleaved Tear Thumb	(Marsh pepper, Pennsylvania,
Velvetgrass	Beggarsticks	Spotted, Swamp, Water)
Bent Grasses	Knotweed	Pacific Silverleaf
Little Hairgrass	Loosestrife	
Crabgrass	Marsh St. Johnswort	

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

Apply 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.

Do not apply more than 100 pounds product per acre per 12-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.

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

Thoroughly incorporate granules into the surface through watering-in.

Amur Corktree  
Arbor Vitae  
Ash  
Azalea<sup>1</sup>  
Barberry  
Beauty Bush  
Birch  
Boxelder  
Boxwood  
Camellia  
Caragana  
Cleyera japonica  
Cotoneaster  
Cottonwood  
Crabapple  
Deutzia  
Dogwood  
Eastern Red Cedar  
Elm  
Elwood Cypress  
English Walnut  
Euonymus

Filbert  
Flowering Almond  
Flowering Quince  
Forsythia  
Gardenia  
Goldenraintree  
Hackberry  
Heather  
Holly (Ilex spp.)<sup>2</sup>  
Honeysuckle  
Ivy (Hedera helix)  
Juniper  
Kinnikinnick  
Laurel  
Leucothoe  
Lilac  
Linden  
Locust  
Magnolia  
Maple  
Mock Orange  
Mountain Ash

Nandina  
Oak  
Osmanthus  
(Holly-olive)  
Pachistima  
Pecan  
Photinia  
Pines<sup>3</sup>  
Pittosporum  
Poplar  
Privet  
Pyracantha  
Rhododendron  
Rockrose  
Rose  
Russian Olive  
Spirea  
Squawcarpet  
Weigela  
Willow  
Yew (Taxus)

<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 specified 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. product 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. product per acre. For control of perennial weeds, apply at a rate of 150 to 200 lbs.

For nutsedge control, apply 250 lbs. product 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.

**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, expressed or implied, extends to the use of this product, contrary to label instructions, or under conditions not reasonably foreseeable to seller, and to the extent consistent with applicable law, the buyer assumes the risk of any such use.

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