

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

PM 25
400-168

DEC - 5 1988

Raymond A. Cardona, Ph.D.
Uniroyal Chemical Company, Inc.
74 Amity Road
Bethany, CT 06525

Dear Dr. Cardona:

Subject: Casoron 4G
EPA Registration No. 400-168 ✓
Casoron 50W
EPA Registration No. 400-169
Technical Dichlobenil
EPA Registration No. 400-175
Casoron 85W
EPA Registration No. 400-176
Re: Dichlobenil Standard - Labeling Amendments
Your Submission Dated November 11, 1988

The above submission has been reviewed by our Agency. Your label is acceptable provided the following change is made.

1. Delete "Shelterbelts."

Please submit five (5) copies of your final printed labeling incorporating this change before you release the products for shipment. A stamped copy of each is enclosed for your records.

Sincerely,

Robert J. Taylor
Product Manager (25)
Fungicide-Herbicide Branch
Registration Division TS-767C

R. Taylor/C. Giles/FHB/PM 25/12-05-88

CONCURRENCES

SYMBOL	SURNAME	DATE

1/7/8

Acceptable
with comments

CASORON™

4G

DICHLORBENIL WEED AND GRASS KILLER

**PRECAUTIONARY STATEMENT
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.

COMPOSITION

Active Ingredient (% by weight)	
Dichlobenil (2,6-dichlorobenzonitrile)	4.0
Inert Ingredients	96.0
TOTAL	100.0

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.

ACCEPTED

EPA Reg. No. 400-168

11-5-88

UNIROYAL CHEMICAL COMPANY, INC.

Middlebury, CT 06749

EPA REG. NO. 400-168

EPA EST. NO.

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.

WEEDS CONTROLLED	Falsedandelion (Catsear)	Quackgrass	Wild Artichoke
Artemisia	Fescue	Russian Knap weed	Wild Aster
Canada Thistle	Leaty 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 (Poa annual)	Crabgrass	Giselia	Milkweed Vine (Morreria odorata)	Ragweed	Teaweed
Bluegrass	Cudweed	Groundsel	Miners Lettuce	Red Deadnettle	Texas Panicum (Murrah 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 (Pustley)	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 (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'	Elwood Cypress	Laurel	Pines'
Barberry	English Walnut	Leucothoe	Pittosporum
Beauty Bush	Euonymus	Lilac	Poplar
Birch	Filbert	Linden	Privet
Boxelder	Flowering Almond	Locust	Pyracantha
Boxwood	Flowering Quince	Magnolia	Rhododendron
Camellia	Forsythia	Maple	Rockrose
Caragana	Gardenia	Mock Orange	Rose
Cleyera japonica	Goldenraintree	Mountain Ash	Russian Olive
Cotoneaster	Hackberry	Nandina	Spiraea
Cottonwood	Heather	Oak	Squawcarpet
Crabapple	Holly (Ilex spp.)	Osmanthus	Weigela
Deutzia	Honeysuckle	(Holly olive)	Willow
			Yew (Taxus)

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

'Except Ilex crenata, I. rotunda, I. vomitoria.

'Bare species are sensitive to injury from CASORON 4G if applied within two years after transplantation. Do not

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USE PRECAUTIONS

AVOID APPLICATIONS WHICH ALLOW CASORON 4G GRANULES TO LODGE IN THE FOLIAGE. PARTICULARLY IN CONIFER TYPE SPECIES, SUCH AS PINES, YEW, 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 Lilaopsis
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	Woolgrass	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 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.

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