

PRECAUTIONARY STATEMENTS

**HAZARD TO HUMANS
AND
DOMESTIC ANIMALS
CAUTION**

Harmful if swallowed. Avoid contact with skin, eyes or clothing. Avoid breathing dust. Wash thoroughly after handling. Remove and wash contaminated clothing before reuse.

STATEMENT OF PRACTICAL TREATMENT

If swallowed: Call a physician or poison control center. Drink 1 to 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.
If on skin: Wash with plenty of soap and water.
If in eyes: Flush with plenty of water. Get medical attention if irritation persists.
If inhaled: Remove victim to fresh air.

ENVIRONMENTAL HAZARD

Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not apply where runoff is likely to occur.

DIRECTIONS FOR USE

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

STORAGE AND DISPOSAL

Storage: Keep away from food, feedstuffs, and domestic water supplies. Keep container closed and out of reach of children and pets.
Pesticide Disposal: Pesticides that cannot be used according to label instructions must be disposed of according to applicable Federal, state or local procedures.
Container Disposal: Completely empty bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of bags in a sanitary landfill or by incineration if allowed by State and local authorities.

**CASORON
G-4 herbicide**

DICHLORBENIL WEED & GRASS KILLER

A SELECTIVE HERBICIDE FOR CONTROL OF CRABGRASS, FOXTAIL, SHEPHERDSPURSE, HORSETAIL, FIGWEED, QUACKGRASS, CANADA THISTLE, LEAFY SPURGE, FESCUE, AND CERTAIN OTHER ANNUAL AND PERENNIAL WEEDS.

ACTIVE INGREDIENT	
Dichlobenil†	4.0%
INERT INGREDIENTS	96.0%
TOTAL	100.0%

†2,6-dichlorobenzonitrile

CASORON is a Research Discovery of N.V. DUPHAR

CAUTION

KEEP OUT OF REACH OF CHILDREN

SEE SIDE PANEL FOR ADDITIONAL
PRECAUTIONARY STATEMENTS

EPA Reg. No. 44215-58

EPA Est. No.

Manufactured by:

P. O. Box 285
Lansing, Kansas 66043

**KAW
VALLEY**

**GENERAL
PERENNIAL**

CASORON G-4 is recommended for control of such as ARTEMISIA, FALSEDANDELION (CATSEAR), ORCHARDGRASS, QUACKGRASS, WILD ARTICHOKe, WILD ASH, ROCKET IN ESTABLISHED WOODY ORNAMENTALS, fences, railroad and utility right-of-way. SOIL SURFACTANT TREATMENT: treatment in late fall from November to March should not be removed before application to areas which have been previously incorporated. INCORPORATED TREATMENT: immediately after application in late fall.

ANNUAL WEEDS

CASORON G-4 is recommended for control of broadleaved weeds and certain grasses such as BLUEGRASS (PERENNIAL), ANNUAL CAMPHORWEED, CARPETWEED, COFFEWEED, CRABGRASS, EVENINGPRIMROSE, FIDDLEHEAD, FOXTAIL, GISEKIA, GROUND SALEM, GOOSEFOOT, KNOX POPS, MILKWEED VINE (MORNINGGLORY), NATALGRASS, OLD WITCHGRASS, PLANTAIN, PURSLANE, RAGWEED, FIGWEED, ROSARY PEA, RUSSIAN SMARTWEED, SPANISH NEEDLE, PANICUM (HURRAHGRASS), WILD RADISH, AND YELLOW WOOD. Apply CASORON G-4 either in pre-plant or after cultivation has begun. granules uniformly over the soil surface. application of 1/2 to 1 inch of water are recommended. Shallow incorporation is recommended in southern areas. sprinkler irrigation is suggested during periods of high temperatures.

FRUIT AND NUTS IN ORCHARDS

CASORON G-4 may be used on orchards to graze treated orchards: A. Almond, Apple, Blueberry, Citrus, Pear, Prune Plum, Filbert, Pecan (before months of planting), and English non-bearing and nursery stock transplanting. Do not make application to stone fruits. Apply 100 to 150 pounds per acre. Follow General Directions above except use or apply more than 100 pounds per acre. emergence. C. Citrus (bearing and non-bearing lemons, and limes) in groves: incorporate immediately to a depth of 2 to 3 inches. Do not apply less than 100 pounds per acre. apply before water ring is removed. On citrus nurseries CASORON G-4 controls weeds in the following citrus: lemon, sour orange, and sweet orange. weed-free soil at 100 to 150 pounds per acre early spring after removal of bank. more than 90 days after the first. An overhead system 1/4 to 1/2 inch. Do not apply CASORON G-4 directly to damage any citrus.

**WOODY ORNAMENTALS
PLANTINGS ESTABLISHED**

For control of annual weeds CASORON G-4 at 150 pounds of CASORON G-4 per acre, before weeds after transplanting. Follow General Directions above except use or apply more than 150 pounds per acre on AZALEA, RHODOLLY WY, LILAC, LEUCOTHOE. Do not use on less than one year old. Follow General Directions above.

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GRASS KILLER

**CONTROL OF
SHEPHERDSPURSE,
ACKGRASS,
SPURGE, FESCUE,
ANNUAL AND**

4.0%
96.0%
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EPA Est. No.

**AW
VALLEY**

GENERAL DIRECTIONS

PERENNIAL WEED CONTROL

CASORON G-4 is recommended for control of certain perennial weeds such as ARTEMISIA, CANADA THISTLE, CURLY DOCK, FALSE DANDELION (CATSEAR), FESCUE, LEAFY SPURGE, ORCHARDGRASS, QUACKGRASS, RUSSIAN KNAWEED, 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 G-4 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 G-4 and incorporate immediately after application in late fall or very early spring before May 1.

ANNUAL WEED CONTROL

CASORON G-4 is recommended for control of annual grassy and broadleaved weeds and certain perennial weeds such as: ANNUAL BLUEGRASS (POA ANNUA), BLUEGRASS, BULL THISTLE, CAMPBELLWEED, CARPETWEED, CHICKWEED, CITRON MELON, DUCKWEED, CRABGRASS, CUDWEED, DANDELION, DOGFENNEL, EVENINGPRIMROSE, FIDDLENECK, FLORIDA PURSLANE (PURSLEY), FOXTAIL, GISEKIA, GROUNDSEL, HENBIT, HORSETAIL, JERUSALEM OAK GOOSEFOOT, KNOTWEED, LAMBSQUARTERS, MAYPOPS, MILKWEED VINE (MORRENIA ODORATA), MINERS LETTUCE, NATALGRASS, OLD WITCHGRASS, PEPPERGRASS, PINEAPPLEWEED, PLANTAIN, PURSLANE, RAGWEED, RED DEADNETTLE, REDROOT PIGWEED, ROSARYPEA, RUSSIAN THISTLE, SHEPHERDSPURSE, SMARTWEED, SPANISHNEEDLES, SPURGE, TEAWEED, TEXAS PANICUM (HURRAHGRASS), WILD BARLEY, WILD MUSTARD, WILD RADISH, AND YELLOW WOODSORREL.

Apply CASORON G-4 either in early spring before seeds or 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 temperatures.

FRUIT AND NUTS IN ORCHARDS AND NURSERIES

CASORON G-4 may be used on the following crops; do not allow livestock to graze treated orchards:

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), and English Walnut. May be used on bearing, non-bearing and nursery stock. Do not apply within 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.

On citrus nurseries CASORON G-4 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 G-4 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 irrigate lightly with overhead systems 1/4 to 1/2 inch.

Do not apply CASORON G-4 during 6 months following possible freeze damage on any citrus.

WOODY ORNAMENTALS, SHELTERBELTS AND FOREST PLANTINGS ESTABLISHED IN NURSERIES

For control of annual weeds CASORON G-4 may be used on the following plants. Apply 100 to 150 pounds of CASORON G-4 per acre, based on areas 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, EUCONYMUS, FORSYTHIA, HEATHER, HOLLY IVY, LILAC, LEUCOTHOF. Do not apply more than 150 pounds per acre on plantings less than one year old. Follow General Directions listed above.

Amur Corktree	Cottonwood	Gardenia	Locust	Poplar
Azalea	Crabapple	Golden Juniper	Magnolia	Privet
Ash	Debutia	Hollyberry	Nuple	Pyracantha
Azalea	Dogwood	Heather	Mock Orange	Rhododendron
Euberry	Eastern Red Cedar	Healy (ex. spp. 12)	Mountain Ash	Rhododendron
Beauty Bush	Elm	Honeysuckle	Nandina	Rose
Burn	Everald Cypress	Hydrangea	Oak	Russian Olive
Bowlder	English Walnut	Juniper	Oxymorus	Syringa
Bonwood	Eucalyptus	Kalmia	Philly olive	Squaw-carpet
Camelia	Filbert	Laurel	R. P. Lima	Viola
Caragana	Flowering Almond	Leucodaphn	Rodan	Willow
Coryla japonica	Flowering Quince	Lilac	Rhodod	Yew (Taxus)
Colonyaster	Forsythia	Linden	Pittosporum	

1. Nurseries. 2. Mixed. 3. Hardy hybrid types and native natural species only.
4. Except 1. ornamental 2. ornamental 3. ornamental

PRECAUTIONS

Do not use in seed beds, transplant or cutting beds or greenhouses. Do not apply until 6 months after rooting or cuttings in the field, or after planting rooted cuttings. Do not apply CASORON G-4 on 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 G-4 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 species of dodder and certain grassy and broadleaved weeds such as lambsquarters, pigweed, green foxtail, buckhorn plantain, prickly scurf-weed, annual ryegrass, chickweed, shepherdspurse, knotweed, prickly lettuce, cow fluff and germinating seeds of these weeds, apply CASORON G-4 at 25 to 50 lbs. 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 granular distribution equipment. Do not skip or overlap.

ALFALFA: Apply CASORON G-4 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 G-4 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 semi-dormant to dormant.

PRECAUTION

Use only in fields devoted exclusively to seed production. Do not apply CASORON G-4 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 G-4 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 G-4. The following weeds are controlled: Geranium, Bracken Fern, Royal Fern, Hair Cap Moss, Common Horsetail, Water Horsetail (piper), Rush (Juncus spp.), Dodder, Bluejoint grass, Pittedgrass (Manna grass), Summer grass, Velvetgrass, Bent Grasses, Little Hairgrass, Crabgrass, Rice Cutgrass, Bunch grass, Muesliat grass, Nutgrass (Nutsedge), Short Wiregrass, Wireweed grass, Stargrass, Woolgrass, cotton grass, Needle grass, Grassgrass, Arrow-leaved Teat Thumb, Beggar-ticks, Knotweed, Loosestrife, Marsh St. Johnswort, Tail-and-dock, Ragweed, Sorrel, Wild Strawberry, Aster, Buckbean, Hartshead, Western Lutescence, Marsh Pea Plantain, Smartweed (Marshpepper 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 of CASORON G-4 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

On all growing areas apply 100 to 150 pounds of CASORON G-4 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.

PRECAUTIONS

Distribute CASORON G-4 uniformly. Avoid over-application which may result from over-lapping during treatment. 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 sprouted beds or on bogs prior to or immediately after moving for yields.

OTHER USES

OUTSIDE CONTROL: To control nuisance outgrowth on mineral beds 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 G-4 per acre and incorporate immediately to a depth of 4 to 6 inches. Seasonal control of annual weeds will also be obtained. Cuttings of plants listed above may be placed on treated soil immediately after transplanting to treated soil.

UNDER ASPHALT: For general weed control under asphalt in areas such as roadways, parking lots, recreational areas, after paving, apply 250 to 300 lbs. per acre, or 1 to 2 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 G-4 application.

BEST DOCUMENT AVAILABLE