

GROUP	<b>20</b>	HERBICIDE
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# CASORON<sup>®</sup> G-2

## Granular Herbicide

contains dichlobenil

### COMMERCIAL

**READ THE LABEL BEFORE USING**

**GUARANTEE: Dichlobenil ..... 2%**

**REGISTRATION NO. 20377  
PEST CONTROL PRODUCTS ACT**

**NET CONTENTS 15 kg**

**Chemtura Canada Co./Cie**  
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Elmira ON N3B 3A3

**24 Hour Emergency Phone: 1-866-744-3060**

**Product Information: 1-800-350-1745**

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### GENERAL INFORMATION

**CASORON G-2** Granular Herbicide provides weed control in established plantings of Woody Ornamentals, Fruit trees, Nurseries, Shelterbelts, Hedgerows, Windbreaks, Grapes, Saskatoons, Cranberries, Raspberries and High Bush Blueberries. **CASORON G-2** Granular Herbicide is recommended for control of many annual grasses, broadleaf weeds and certain perennial weeds including:

- |                  |                                 |                  |
|------------------|---------------------------------|------------------|
| Annual bluegrass | Foxtail                         | Plantain         |
| Artemisia*       | Groundsel                       | Purslane         |
| Bindweed*        | Grasses (Sedges and Juncus sp.) |                  |
| Bittercress      | Horsetail                       |                  |
| Blue aster       | Knotweed                        | Sheep Sorrel*    |
| Bracken fern     | Kochia                          | Shepherd's-purse |
| Canada thistle*  | Lamb's-quarters                 | Smartweed        |
| Chickweed        | Loosestrife                     | Sow thistle      |
| Crabgrass        | Mustard                         | Spurge           |
| Couch grass*     | Nutsedge*                       | Vetch*           |
| Dandelion*       | Pigweed                         | Wild buckwheat*  |

\*Controlled with the higher rates and late fall applications.

**DIRECTIONS FOR USE:**

**CASORON G-2** Granular Herbicide is a ready to use granular product. It can be spread on the soil surface using small hand held or backpack equipment, or by larger and tractor mounted spreaders. Soil should be moist after application to activate the product. A light precipitation after application to moist soil is preferred. When a dry period is expected after application, incorporate or water in the product. Covering with moist mulch is also effective.

Annual Weed Control: Apply **CASORON G-2** Granular Herbicide to well prepared weed-free soil in early spring or late fall before annual weed seeds have germinated. If annual weeds have started to germinate before application cultivate to remove them. Apply granules uniformly over the soil surface.

Do not apply until 4 weeks after transplanting any crop. **CASORON G-2** Granular Herbicide should not be applied during periods of high soil temperatures.

For use on agricultural crops:

Do not enter or allow worker entry into treated areas within 12 hours of application.

For horticultural/nursery uses:

Do not enter or allow worker entry into treated areas within 24 hours of application.

**DO NOT APPLY BY AIR**

**RATE OF APPLICATION:**

Apply 220-350 kilograms of **CASORON G-2** Granular Herbicide per hectare. The amount of **CASORON G-2** Granular Herbicide used should be based on the area actually treated. Do not use on light sandy soil. If application is followed immediately by an application of 1.3 to 2.5 centimeters of water by overhead irrigation the lower rates are recommended.

Treating smaller areas or calibrating:

<b>CASORON G-2</b> Granular Herbicide per	Area Treated				
	Hectare	1mx1m	1.5mx1.5m	2mx2m	2.5mx2.5m
220kg	20 gm	50 gm	90 gm	140 gm	200 gm
350 kg	35 gm	80 gm	140 gm	220 gm	320 gm

**ESTABLISHED PLANTINGS OF WOODY ORNAMENTALS, NURSERIES AND SHELTERBELTS\*, HEDGEROWS AND WINDBREAKS\*:**

**CASORON G-2** Granular Herbicide may be used for weed control with repeat applications each year for maintenance weed control. Follow directions listed above.

**CASORON G-2** Granular Herbicide may be used for weed control on the plants listed below. Follow application directions.

Arborvitae	Elm	Locust
Ash	Euonymus	Maple
Barberry	Forsythia sp.	Mock orange
Birch (Cut Leaf Weeping)	Heather	Rhododendron
Boxwood	Holly ( <i>Ilex spp.</i> )†	Rose
Caragana	Honeysuckle	Spirea
Cedar (Eastern Red)	Juniper	Willow
Cedar (White)	Lilac	Yew ( <i>Taxus</i> )
Crabapple	Linden	

\* only trees listed above should make up the Shelterbelts, Hedgerows, Windbreaks

† Holly (*Ilex spp.* Except *I. crenata*, *I. rotunda*, *I. vomitoria*)

**Note: DO NOT USE ON:**

Gladiolus	Firs (Abies species such as <i>Balsam Fir</i> [ <i>Abies concolour</i> ])
<i>Ajuga</i>	<i>Ilex crenata</i> Hemlock
<i>Ilex rotunda</i>	<i>Ilex vomitoria</i> Spruce
Herbaceous Perennials†	Mugho pine

† avoid use on plants which die down to the ground in the fall

use with caution on shallow rooted ground covers (*Euonymus* can be treated), and other plants from list above.

**CONTAINER NURSERY STOCK:**

Apply **CASORON G-2** Granular Herbicide at 220 kg per hectare. Water in immediately after application.

For use on these specific species:

Juniper - *Juniperus chinensis*  
- *Juniperus horizontalis*

Eastern White Cedar – *Thuja occidentalis*

For the control of the weeds mentioned earlier on this label plus Bittercress.

Note: Observe these use guidelines.

**DO NOT USE IN OR NEAR GREENHOUSES**

Wait to apply **CASORON G-2** Granular Herbicide for at least four (4) weeks after transplanting into containers. Use only on established container plants growing outside in the open air. Do not use in seedbeds, transplant or cutting beds or in greenhouses. Do not use after September 15 or within thirty (30) days of potting treated stock into a container holding house as damage to the crop may occur. Use only on potting mixes that have a minimum of 80% pure organic matter. Lower amount of organic matter may increase risk of injury to the crop.

Only small numbers of containers should be treated until a grower has experience with this application.

For further information contact provincial government authorities.

**FRUIT TREES AND FRUIT TREE NURSERIES:**

**CASORON G-2** Granular Herbicide may be used for weed control around bearing fruit trees and second year orchard stock of the following tree fruits

APPLE, CHERRY, PEACH, PEAR, AND PLUM. Follow directions for broadcast or band (herbicide strip) tree area only application. Refer to precautions for timing with transplants.

Do not apply 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 per growing season.

NEWLY PLANTED APPLE TREES: (in British Columbia only). May be treated with **CASORON G-2** Granular Herbicide four weeks after planting in the orchard but prior to weed growth. Apply 220-350 kg per hectare once per season. Use the lower rate on lighter soils. Under warm growing conditions, immediately after application of the **CASORON G-2** Granular Herbicide apply 1.3-2.5 cm of water by overhead irrigation.

**CRANBERRIES:**

Control of annual broad leaved species, Blue Aster, Loosestrife, Horsetail, Knotweed, Plantain, Smartweed and Grasses (certain Sedges and *Juncus* Species). Application should be made early in the spring while perennial weeds are still dormant and annual weeds have not started to germinate. Apply pre-bloom.

**SPRING APPLICATION:** Apply 220 kilograms **CASORON G-2** Granular Herbicide per hectare. Do not make a spring application after application the previous fall. See specific directions for British Columbia.

**BRITISH COLUMBIA:** Apply 350 - 450 kilograms **CASORON G-2** Granular Herbicide per hectare in two equal applications in early spring with an interval of 3 to 6 weeks between each 180 - 220 kilograms per hectare treatment. Do not make fall applications.

**Note:** Distribute granules evenly. Avoid over application which may result from overlapping during treatment. Temporary reddening of Cranberry plants may occur, especially with late spring applications. Do not apply after Cranberry plants start to bloom as yield may be reduced. Do not use on young beds, newly sanded beds or beds recently mowed for vines. Use lower rates of application on sandy bogs.

#### **HIGHBUSH BLUEBERRIES:**

Apply uniformly at the rate of 350 - 450 kilograms per hectare during the dormant period (late winter). Bracken fern and weeds listed in the cranberry section of this label will be controlled.

#### **RASPBERRIES:**

For couch grass, other perennial broadleaf weeds and annual weeds in established raspberry plantings. Apply **CASORON G-2** Granular Herbicide at the rate of 350 kilograms per hectare in late fall. Use this rate only every other year. Do not cultivate or work into the soil. Do not apply in the spring as injury may occur.

#### **ESTABLISHED SASKATOONS:**

Weeds controlled - as per above list including chickweed, stinkweed, groundsel, pigweed, dandelion and some grasses. Apply to Saskatoons, established for one or more years. Apply with a granular applicator in the fall before freeze-up. Use 220-350 kg of **CASORON G-2** Granular Herbicide granules per hectare on a broadcast basis. Do not apply within 9 months of harvest.

#### **GRAPES:**

Apply only to control weeds under grapes established for at least two full years. Do not treat soil the year before planting or replanting grapes. Grape nurseries should not be treated.

**Rates:** For seedling weeds use 220 - 350 kilograms per hectare in early spring or fall. For perennial weeds such as couch grass and thistles, apply in the fall using 350-450 kilograms per hectare.

**Follow these specific recommendations:**

1. Treat when vines are completely dormant.
2. Treat only healthy vines.
3. Treat only vines established for at least two full years.
4. Apply in cool weather on moist soil.
5. Avoid over-application to base of the stem.

**Note:** If spring application is made, apply before the weeds germinate and a month before the grape buds burst. Do not apply on hazy, hot days.

#### **COUCH GRASS AND ARTEMISIA CONTROL IN ESTABLISHED WOODY ORNAMENTALS:**

Couch grass and Artemisia can be controlled in woody ornamentals listed above (except Boxwood, Euonymus, Forsythia, Heather) which has been planted for at least one year - and for control in non-crop areas. Apply 300 kilograms per hectare **CASORON G-2** Granular Herbicide as a uniform coverage in late fall from October 15th to December 15th and reapply at the rate of 300 kilograms per hectare in very early spring before May 1.

#### **COUCH GRASS, THISTLES, BINDWEED, DANDELION:**

Can be fall treated to free the area of weeds for spring plantings of woody ornamentals. Apply 450 - 550 kilograms of **CASORON G-2** Granular Herbicide per hectare as a uniform coverage in late October or November.

**DO NOT TRANSPLANT INTO TREATED SOIL FOR ONE YEAR.**

### **NUTSEDGE (NUTGRASS) CONTROL:**

To control Nutsedge (Nutgrass) on mineral soils in areas on which containers of nursery stock are to be grown or held - also for control on cultivated non-crop land - apply 550 kilograms **CASORON G-2** Granular Herbicide per hectare and incorporate immediately to a depth of 10 to 15 centimeters. 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 FOR ONE YEAR. Apply by ground only.**

### **RESISTANCE MANAGEMENT RECOMMENDATIONS:**

For resistance management, **CASORON G-2** Granular Herbicide is a Group 20 herbicide. Any weed population may contain or develop plants naturally resistant to **CASORON G-2** Granular Herbicide and other Group 20 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance:

- Where possible, rotate the use of **CASORON G-2** Granular Herbicide or other Group 20 herbicides with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group when such use is permitted.
- Herbicide use should be based on an IPM program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical), cultural, biological and other chemical control practices.
- Monitor treated weed populations for resistance development.
- Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment and planting clean seed.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact Chemtura Canada Co./Cie at 1-800-350-1745 or at [www.chemtura.com](http://www.chemtura.com).

### **PRECAUTIONS:**

- **KEEP OUT OF REACH OF CHILDREN.** Harmful if swallowed. Avoid breathing dust. Avoid skin or eye contact. Avoid contamination of feed and foodstuffs.
- Do not use crops other than those listed on the label. Do not use in seedbeds, transplant or cutting beds. **DO NOT USE IN OR AROUND GREENHOUSES.**
- Do not apply until 6 months after rooting of cuttings in the field.
- **CAUTION:** Do not graze livestock in treated areas or use treated crops for forage or fodder, sufficient data are not available to support such use. Application in spring should be made well before bud burst. Do not plant vegetables or other sensitive crops the year following soil treatment.
- Wear long pants and a long-sleeved shirt, shoes and socks during mixing/loading and application. In addition, wear chemical resistant gloves during mixing/loading, clean-up and repair activities.
- Do not apply directly by hand.
- **DO NOT APPLY BY AIR.**

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at: [www.croplife.ca](http://www.croplife.ca).

### **ENVIRONMENTAL HAZARDS**

- This chemical demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this chemical may result in contamination of groundwater, particularly in areas where soils are permeable and/or the water table is shallow.
- To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include, but are not limited to, heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g., soils that are compacted, fine textured or low in organic matter such as clay)
- Avoid application of this product when heavy rain is forecast.

#### **FIRST AID:**

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

**If on skin or clothing:** Take off contaminated clothing.

Rinse skin IMMEDIATELY with plenty of water for 15 – 20 minutes. Call a poison control centre 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 by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

**If swallowed:** Call a poison control centre 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 a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

Take container, label or product name and Registration Number with you when seeking medical attention.

**TOXICOLOGICAL INFORMATION:** Treat symptomatically.

#### **STORAGE AND DISPOSAL:**

**STORAGE:** Store product in original container only, away from other pesticides, fertilizer, food or feed. Keep container closed. Do not store in direct sunlight. Do not store above 35°C or below 0°C.

#### **DISPOSAL:**

1. Follow provincial instructions for any required cleaning of the container prior to its disposal.
2. Make the empty container unsuitable for further use.
3. Dispose of the container in accordance with provincial requirements.
4. For information on the disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

**NOTICE TO USER:** This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

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