

GROUP

20

HERBICIDE

CASORON[®] G-4 Granular 2

Herbicide

contains dichlobenil

COMMERCIAL

READ THE LABEL BEFORE USING

GUARANTEE: Dichlobenil 4%

**REGISTRATION NO. 23767
PEST CONTROL PRODUCTS ACT**

NET CONTENTS 15 kg

Chemtura Canada Co./Cie

25 Erb Street

Elmira ON N3B 3A3

24 Hour Emergency Phone:

1-866-744-3060

Product Information: 1-800-350-1745

DIRECTIONS FOR USE:

CASORON G-4 Granular 2 provides weed control in established plantings of Woody Ornamentals, Nurseries, Shelterbelts, Hedgerows and Windbreaks. **CASORON G-4** Granular 2 is recommended for control of many annual grasses, broadleaf weeds and certain perennial weeds including:

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

*Controlled with the higher rates and late fall applications.

Annual Weed Control: Apply **CASORON G-4** Granular 2 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-4** Granular 2 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 110-175 kilograms of **CASORON G-4** Granular 2 per hectare 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:

| CASORON G-4 Granular 2 | per | | Area Treated | | |
|-------------------------------|-------|-----------|--------------|-----------|--------|
| | 1mx1m | 1.5mx1.5m | 2mx2m | 2.5mx2.5m | 3mx3m |
| 110 kg | 11 gm | 25 gm | 45 gm | 70 gm | 100 gm |
| 175 kg | 17 gm | 40 gm | 70 gm | 110 gm | 160 gm |

ESTABLISHED PLANTINGS OF WOODY ORNAMENTALS, NURSERIES AND SHELTERBELTS*, HEDGEROWS AND WINDBREAKS*: **CASORON G-4** Granular 2 may be used for weed control with repeat applications each year for maintenance weed control. Follow directions listed above.

CASORON G-4 Granular 2 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 (<i>Abies</i> 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 Perennial† | 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-4** Granular 2 at 100 kg per hectare.

Water in immediately after application. Apply by ground only.

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-4** Granular 2 for at least four (4) weeks after transplanting into containers. Use only on established container plants growing outside. 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.

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 150 kilograms per hectare of **CASORON G-4** Granular 2 as a uniform coverage in late fall from October 15th to December 15th and reapply at the rate of 150 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 from spring plantings of woody ornamentals. Uniformly apply 225 -275 kilograms of **CASORON G-4** Granular 2 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 215-275 kilograms **CASORON G-4** Granular 2 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.**

RESISTANCE MANAGEMENT RECOMMENDATIONS:

For resistance management, **CASORON G-4** Granular 2 is a Group 20 herbicide. Any weed population may contain or develop plants naturally resistant to **CASORON G-4** Granular 2 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-4** Granular 2 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.

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.

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 swallowed: call a poison control centre or doctor immediately for treatment advice. Have a 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.

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 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 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

Take container, label or product name and Pest Control Product 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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