

12-SEP-2002

<b>GROUPE</b>	<b>7</b>	<b>HERBICIDE</b>
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## **DIURON 80W**

WETTABLE POWDER

HERBICIDE

COMMERCIAL

**READ THE LABEL BEFORE USING**

**Guarantee:** DIURON 80%

REGISTRATION NUMBER:11771

PEST CONTROL PRODUCTS ACT

NET CONTENTS: 10 kg

**United Agri Products**  
789 Donnybrook Drive  
Dorchester, Ontario  
N0L 1G5

## **DIRECTIONS FOR USE**

**USE IN CROPS** DIURON 80W controls weed seedlings such as crabgrass, foxtail, pigweed, ragweed and lamb's-quarters. Any well established weeds should first be eliminated by mechanical or other means. For best results, the soil should be well prepared and as free as possible from trash and clods. Unless otherwise directed, surface of the soil should not be cultivated or disturbed after application as efficacy may be reduced and/or crop injury may result. Sufficient moisture in the form of rainfall or irrigation is necessary after treatment to carry the chemical into the root zone of the germinating weeds.

Application should be to the surface of the ground by fixed boom power sprayers properly calibrated to a constant speed and rate of delivery. Make certain spray equipment is clean (free of scale, rust, dirt, oil and pesticide deposits) . Use sufficient water (250 to 400 litres per hectare of area actually sprayed) to provide thorough and uniform coverage. Spray booms must be shut off while starting, turning, slowing or stopping or injury to crop may result.

**IMPORTANT:** Unless otherwise directed, do not replant treated areas to any crop within two years after the last application as injury to subsequent crops may result.

**SOIL LIMITATIONS:** Crop injury may result from failure to observe the following: Unless otherwise directed, do not use on sand, loamy sand or gravelly soils with less than 1% organic matter.

## **RESISTANCE MANAGEMENT RECOMMENDATIONS**

For resistance management DIURON 80W is a Group 7 herbicide. Any weed population may contain or develop plants naturally resistant to DIURON 80W and other Group 7 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 DIURON 80W or other Group 7 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, 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 advisor 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 the Technical Service at 1-800-265-4624 or at [www.uap.ca](http://www.uap.ca).

**GRAPES:** Apply only to established vineyards (at least three years old) as a band application to grape rows. On light sandy soils, use 2.25 to 3.25 kg/ha (of area actually sprayed). On soils high in clay or organic matter, use 3.25 to 6.75 kg/ha. Apply just prior to germination and growth of annual weeds, usually in the spring. It may be desirable to make a fall treatment, or divide applications equally between fall and spring treatment. Do not exceed the above rates per year as injury may result.

**ASPARAGUS:** Do not apply to newly seeded asparagus nor to young plants during the first growing season after setting nor on plants with exposed roots as severe injury may result. Apply as a band or broadcast treatment. On light sandy soils and other soils low in clay or organic matter, apply 1.1 to 2.25 kg/ha. On soils high in clay or organic matter, use 2.25-4.5 kg/ha. Two applications may be used; the first application should be made before weeds become established, but no earlier than 4 weeks before spear emergence and no later than the early cutting period (if weeds are controlled into the cutting period by cultural practices, application may be delayed until immediately after the last cultivation); a second application may be made immediately following completion of harvest provided rainfall is expected. When two applications are used in one season, do not exceed 3.25 kg per ha per application. If irrigation is used, apply on a single treatment of 4.5 kg per ha in late September or October.

#### **NON-CROP WEED CONTROL**

DIURON 80W is an effective general herbicide for the control of many annual and perennial grasses and herbaceous weeds on non-cropland areas where bare ground is desired. DIURON 80W may be used at any time, except when the ground is frozen, providing adequate moisture is received by rainfall or artificial means. Best results are obtained when applied shortly before weed growth begins. Dense growth should be removed. The degree of control and duration of effect will vary with the amount of chemical applied, soil type, rainfall and other conditions.

**GENERAL WEED CONTROL:** The actual rates required to control most weeds for an extended period of time vary depending on soil type, weed species present, and duration of control desired. On sands and sandy loams, apply 11 kg – 27.5 kg/ha DIURON 80W. On clays or high organic soils, apply 40 – 55 kg/ha. The lower rates within the respective soil classifications should be used where annuals predominate and where one season's control is desired. Where perennials predominate and where more than one season's control is required, use the higher rates. To extend control, a follow-up treatment of 11 kg/ha may be used to control annuals and seedlings.

**IRRIGATION AND DRAINAGE DITCHES:** Apply 500 g to 1.25 kg per 100 m<sup>2</sup> (23 to 67.5 kg per hectare). For irrigation ditches apply during the non-crop season, and when ditch is not in use. To minimize movement of DIURON 80W with irrigation water and avoid crop injury, it is essential that it be fixed in the treated soil by moisture. Apply before expecting seasonal rainfall, if possible when soil in the ditch is still moist. If rainfall has not totalled at least 10 cm following treatment and before intended use of irrigation ditch, fill with water and allow to stand for 72 hours; drain off and waste

remaining water before using ditch. Do not treat any ditch area into which roots of trees or other desirable plants may extend.

**SPOT TREATMENT:** To control deep-rooted perennial weeds such as couchgrass and toadflax, spot treatment at a rate of 725 g to 975 g per 100 m<sup>2</sup>. Re-treat as necessary. This treatment will result in the loss of soil productivity for an extended period.

**FOR SMALL AREAS:** 55 g per 10 m<sup>2</sup> is approximately 55 kg/ha.

**PRECAUTIONS:**

KEEP OUT OF REACH OF CHILDREN. DO NOT APPLY BY AIR. DO NOT apply (except as recommended for crop use), or drain, or flush equipment on or near desirable trees or other plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots. DO NOT use on lawns, walks, driveways, tennis courts, or similar areas. Prevent drift of dry powder or spray to desirable plants. DO NOT contaminate domestic water. Keep from contact with fertilizers, insecticides, fungicides and seeds. Thoroughly clean all traces of DIURON 80W from application equipment immediately after use, otherwise crop injury may result when equipment is used again. Flush tank, pump, hoses and boom with several changes of water after removing nozzle tips and screens (clean these parts separately).

**CAUTION:** Do not grass the treated crops or cut for hay; sufficient data are not available to support such use. May irritate eyes, nose, throat and skin. Avoid breathing dust or spray mist. Avoid contact with skin, eyes and clothing. 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., contact 1-866-375-4648 or [www.cropro.org/](http://www.cropro.org/).

**FIRST AID**

**If in eyes:** Immediately flush eyes with plenty of clean water for at least 15 minutes. Call a physician.

**If on skin:** Immediately flush skin with soap and water. Wash contaminated clothing before reuse.

**If inhaled:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

**If swallowed:** Immediately give 2 glasses of water and **INDUCE VOMITING**. Never give anything by mouth to an unconscious person. Call a physician or contact a poison control centre. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**TOXICOLOGICAL INFORMATION:** Treat symptomatically.

## **DISPOSAL**

1. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
2. Make the container unsuitable for further use.
3. Dispose of the container in accordance with provincial requirements.
4. For information on 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 product is to be used only in accordance with the directions on this label. It is an offense under the *Pest Control Products Act* to use a control product under unsafe conditions.

**NOTICE TO BUYER:** Seller's guarantee shall be limited to the terms set out on this label and subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

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