

# DIUREX 80WDG

## COMMERCIAL

Formulation of Diuron

Water Dispersible Granules

For Selective Weed Control  
in Grapes and Asparagus and  
Weed Control on Non-Crop Areas

## GUARANTEE:

Diuron.....80%

READ THE LABEL BEFORE USING

WARNING - EYE IRRITANT

REGISTRATION NO. 28107  
PEST CONTROL PRODUCTS ACT

Makhteshim Agan of North America Inc.  
4515 Falls of Neuse Road, Suite 300  
Raleigh, NC 27609

Net Weight 1-50 kg

**CAUTION: KEEP OUT OF REACH OF CHILDREN.** Causes eye irritation. DO NOT get in eyes. May irritate nose, throat and skin. Avoid breathing dust or spray mist. Avoid contact with skin, eyes, and clothing. Harmful if swallowed. Do not reuse containers.

### **GENERAL INFORMATION**

Diurex 80 WDG is a wettable solid to be mixed in water and applied as a spray to the surface of the ground for control of weeds. Effects are slow to appear and will not become apparent until the chemical has been carried into the root zone of the weeds by moisture. DO NOT APPLY BY AIR.

It is non-corrosive to equipment, non-volatile and non-flammable. The degree of control and duration of effect will vary with the amount of chemical applied, soil type, rainfall and other conditions.

**MOISTURE:** Diurex 80 WDG requires moisture in the form of rainfall or irrigation after treatment to carry the chemical into the root zone of weeds.

**APPLICATION INFORMATION:** Before spraying, calibrate equipment to determine quantity of water necessary to uniformly cover area to be treated. Accurately weigh amount of Diurex 80 WDG required and mix into necessary volume of water. Water serves only as a carrier.

Except for small areas, use fixed-boom power sprayers properly calibrated to insure constant rate of application. Openings in screens should be equal to or larger than 50 mesh.

Material must be kept in suspension at all times by agitation, preferably by continuous mechanical or hydraulic means in the spray tank. If by-pass or return line is used, it should terminate at bottom of tank to minimize foaming. Do not use air agitation. For general weed control in small areas, tank-type hand sprayer or sprinkling may be used; shake or stir frequently. 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 areas actually sprayed) to provide thorough and uniform coverage.

### **USE PRECAUTIONS**

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. Wear goggles or face shield during mixing/loading. Do not use on lawns, walks, driveways, tennis courts, or similar areas. Prevent drift of sprays, dry powder and surface run-off from reaching desirable plants and their roots. Do not reuse container. Keep from contact with fertilizers, insecticides, fungicides and seeds. Do not contaminate any body of water. Thoroughly clean all traces of Diurex 80 WDG 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 graze the treated areas or cut for hay; sufficient data are not available to support such use.

## **DIRECTIONS FOR USE**

**RESISTANCE-MANAGEMENT RECOMMENDATIONS:** For resistance management, DIUREX 80 WDG is a Group 7 herbicide. Any weed population may contain or develop plants naturally resistant to DIUREX 80 WDG 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 DIUREX 80 WDG 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 (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 Makhteshim Agan of North America at 1 919 256-9305.

**NON-CROP WEED CONTROL:** Diurex 80 WDG will control many annual and perennial grasses and broadleaf weeds on non-crop land areas where bare ground is desired. It may be used at any time, except when ground is frozen. Best results are obtained when applied shortly before weed growth begins. Dense growth should be removed.

**GENERAL WEED CONTROL:** On sands and sandy loams, apply 11 to 27.5 kg per hectare. On clays or high organic soils, apply 40 to 55 kg per hectare. The lower rates within these ranges 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 higher rates. To extend the control, a follow-up treatment of 11 kg per hectare may be used to control annuals and seedlings. Regrowth of plantain, thistle or wild carrot will indicate when retreatment is necessary.

**SPOT TREATMENT:** To control deep-rooted perennial weeds such as quackgrass and toadflax, spot treat at a rate of 725-975 grams per 100 square meters. Re-treat as necessary. This treatment will result in the loss of soil productivity for an extended period.

**FOR SMALL AREAS:** 150 g of Diurex 80 WDG per 100 square meters is approximately 55 kg per hectare.

**NOTICE TO USER:** This control product is to be used only in accordance with the directions on this label. It is an offence under the *Pest Control Products Act* to use a control product under unsafe conditions.

**NATURE OF RESTRICTION:** This product is to be used only in the manner authorized; consult local pesticide regulatory authorities about use permits which may be required.

**RESTRICTED USES-IRRIGATION AND DRAINAGE DITCHES:** Apply 0.25 to 1.25 kg in 2.5 to 5.0 litres per 100 square meters. (22.5 to 110 kg per hectare). For irrigation ditches apply during the non-crop season, and when ditch is not in use. Best results are obtained when applied shortly before weed growth begins. Dense growth should be removed. Do not use when ground is frozen.

To minimize movement of Diurex 80 WDG with irrigation water and avoid crop injury, it is essential that it be fixed in the treated soil by moisture. Apply before expected seasonal rainfall, if possible when soil in the ditch is still moist. If rainfall has not totaled 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 waste and remaining water before using ditch. Do not treat any ditch area into which roots of trees or other desirable plants may extend or in locations where the herbicide may be washed or moved into contact with the roots.

### SELECTIVE USE IN CROPS

Diurex 80W selectively 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. The soil should be well prepared and free from trash and clods.

Surface of the soil should not be cultivated or disturbed after application as efficiency may be reduced and/or crop injury may result. Spray booms must be shut off while starting, turning, slowing, or stopping or injury to the crop may result.

**GRAPES:** Apply only to established vineyards (at least three years old) as a band application to grape rows. On light sandy soils (soils with only 1 to 2% clay or organic matter) use 2.25 to 3.25 kg per hectare (of area actually sprayed); on soils high in clay or organic matter, use 3.25 to 6.7 kg. 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 soil and other soils low in clay or organic matter, apply 1.1-2.25 kg per hectare. On soil high in clay or organic matter, use 2.25-4.5 kg per hectare. Two applications may be used. Make the first application 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 harvest if rain is expected. When two applications are used in one season, do not exceed 3.25 kg per hectare for application. If irrigation is used, make only a single treatment of 4.5 kg per hectare in late September or October.

**SOIL LIMITATIONS:** Do not use on sand, loamy sand, or gravelly soils with less than 1% organic matter as crop injury may result.

**IMPORTANT:** Do not replant treated areas to any crop within two years after last application as injury to subsequent crops may result. Do not use on dwarf or semi-dwarf plants.

### **PRECAUTIONS**

**KEEP OUT OF REACH OF CHILDREN.** Causes eye irritation. DO NOT get in eyes. MAY IRRITATE NOSE, THROAT AND SKIN. Avoid breathing dust or spray mist. Avoid contact with skin, eyes, and clothing. Harmful if swallowed. Wash hands before eating, drinking or smoking. Do not contaminate food or feed.

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 swallowed: give a slurry of activated charcoal in a glass of water. Get medical attention, or contact a poison control center IMMEDIATELY. Never give anything by mouth to an unconscious person. If in eyes: flush at once with plenty of water and consult a physician, or contact a poison control center. If on skin: wash IMMEDIATELY with soap and water, or contact a poison control center. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**TOXICOLOGICAL INFORMATION:** Treat symptomatically

### **DECONTAMINATION AND DISPOSAL**

Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank. Follow provincial instruction for any required additional cleaning of the container prior to its disposal. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial requirements. 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.

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**NOTICE TO BUYER:** Seller's guarantee shall be limited to the terms set out on the 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.